

**Grants-in-Aid of Research Awards**  
**March 15, 2006 Grant Cycle**

Alphabetical by Institution

<b>Grant Recipient</b>	<b>Research Field</b>	<b>Institution</b>	<b>Study Title</b>
<b>Caroline S. Fortunato</b>	Ecology	American University	Assessing Biogeochemical Processes of A Freshwater Tidal Estuary through Microbial and Nutrient Composition
<b>David A. Ballinger</b>	Conservation Biology	Appalachian State University	Physical Variables and Community Structure of the White Rocks Cliff System, Cumberland Gap National Historical Park
<b>Jorge L. Esquivel</b>	Ecology	Appalachian State University	Chytrids vs Amphibians: Emerging Disease or History of Natural Selection?
<b>Robert C. Thigpen</b>	Conservation Biology	Appalachian State University	Stable Isotope Analysis of Commercially Important Marine Invertebrates from Belize
<b>Kristi L. Lewton</b>	Physiology/Functional Morphology	Arizona State University	Biomechanical Analysis of Strain in the Primate Pelvis
<b>Melissa G. Meadows</b>	Behavioral Ecology	Arizona State University	Iridescent structural coloration as a status signal in Anna's Hummingbird ( <i>Calypte anna</i> )
<b>Nathan I. Morehouse</b>	Systematics/Evolutionary Biology	Arizona State University	Nitrogen Limitation and Sexually Dimorphic Pterin Pigmentation in a Pierid Butterfly
<b>Caley M. Orr</b>	Anthropology	Arizona State University	Three-dimensional Morphometrics and Kinematics of the Anthropoid Wrist and the Evolution of Knuckle-walking
<b>Siddarth Venkatesh</b>	Engineering	Auburn University	Biomimetic Therapeutic Contact Lenses For The Enhanced Loading And Extended Release Of Ocular Therapeutics
<b>Niv Palgi</b>	Physiology/Functional Morphology	Ben-Gurion University of the Negev	Is Digestion of Dietary Oxalate in Fat Sand Rat Guts by Symbiotic Bacteria Reduced by Increased Calcium Intake
<b>Carlye D. Peterson</b>	Paleontology/Sedimentation	California State University-Long Beach	Biogenic Silica as a Climatic Proxy for Monsoon Intensity in Vietnam Over the Last 1200 Years

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<b>Candice M. Chavez</b>	Psychology	California State University-San Bernardino	Top-down Modulation by Medical Prefrontal Cortex of Basal Forebrain Activation of Auditory Cortex During Learning
<b>Erica K. Torner</b>	Psychology	California State University-San Bernardino	Basal Forebrain Involvement in Pavlovian Conditioning: An Animal Model of Alzheimer's Disease
<b>Craig S. Rudick</b>	Physics/Astronomy	Case Western Reserve University	Multi-filter Photometric Imaging of the ICL in the Core of the Virgo Cluster
<b>Joy M. O'Keefe</b>	Conservation Biology	Clemson University	Multi-scale Foraging Habitat Selection by Bats in the Southern Appalachian Mountains
<b>Britt Reichborn-Kjennerud</b>	Physics/Astronomy	Columbia University	ACS Development to Map the Polarization of the Cosmic Microwave Background Using EBEX
<b>Michael Stastny</b>	Ecology	Cornell University	Local Community Structure of Related Plant Species via Direct and Indirect Ecological Interactions
<b>Stephanie C. van Veen</b>	Cell Biology/Biochemistry	Cornell University	Effects of High Progesterone on Avian Sex Chromosome Segregation During the Sex-determining Division of Meiosis
<b>Kristen K. Cecala</b>	Ecology	Davidson College	Eating Your Neighbor: The Role of Predation in Structuring Stream Salamander Guilds
<b>Kishore K. Tenneti</b>	Engineering	Drexel University	Phase Structures of Hierarchically Self Assembled Liquid Crystalline Rod-Coil Block Copolymers with Bent-Core Mesogens
<b>Audrey S. Chang</b>	Systematics/Evolutionary Biology	Duke University	The Role of Postcopulatory Sexual Selection in Driving the Evolution of Reproductive Proteins in <i>Drosophila</i>

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<b>Kerry E. Jordan</b>	Psychology	Duke University	Attentional Effects of Video Game Playing: Purely Visual or Multisensory Causes and Effects
<b>Varun Swamy</b>	Conservation Biology	Duke University	Examining the Insidious Effects of Hunting in Disrupting the Critical Role of Animals in the Perpetuation of Tropical Rainforests
<b>Yi-Hsin E. Tsai</b>	Systematics/Evolutionary Biology	Duke University	The Invasion and Population Dynamics of the Parasitic Plant, <i>Epifagus virginiana</i>
<b>Jennifer J. Weber</b>	Systematics/Evolutionary Biology	East Carolina University	Selfng-Induced Flower Senescence: An Unrecognized Mode of Pollen Discounting
<b>Christie L. Wilcox</b>	Ecology	Eckerd College	Effect of Fiddler Crabs on Mangrove Seedling Growth in Cockroach Bay, Florida
<b>Jamie L. Gilley</b>	Behavioral Ecology	Florida Institute of Technology	Habitat Alteration and Its Affect on Predator-Prey Interactions of the Invasive Pike Killifish and the Native Mosquitofish
<b>Debra W. Woodall</b>	Petrology/Geochemistry	Florida Institute of Technology	The Role of Mineral Suspended Solds in the Photochemical Cycling of Carbon Associated with CDOM
<b>Teresa L. Micheli</b>	Psychology	George Mason University	Hippocampal deficits due to elevated zinc consumption assessed by the trace fear conditioning task.
<b>Karah E. Knope</b>	Chemistry	George Washington University	Synthesis of Lanthanide Oxalates via In-Situ Ligand Formation: Decarboxylation, Organic Oxidation, and the Reductive Coupling of Adventitious Carbon Dioxide

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<b>Meridith R. Mikulich</b>	Physiology/Functional Morphology	Georgetown University	Pax3 and Pax7 Protein Expression and Localization in Skeletal Muscle after Injury to the Peripheral and Central Nervous System
<b>Samuel J. Fasulo</b>	Psychology	Georgia State University	Complex Trauma Exposure and Psychological Distress in Incarcerated Juvenile Offenders
<b>Jodi L. Den Uyl</b>	Behavioral Ecology	Grand Valley State University	Analysis of Microbial Assemblages in Mated Tree Swallows using Denaturing Gradient Gel Electrophoresis
<b>Zarin P. Machanda</b>	Anthropology	Harvard University	The Effect of Male Presence on Female Feeding Efficiency Among the Chimpanzees of the Budongo Forest, Uganda
<b>Corin M. McLean</b>	Anthropology	Harvard University	Why Red Colobus: Exploring Arboreal Behaviors in Colobines That May Impact Chimp Hunting Preferences
<b>Maia Kiladze</b>	Physiology/Functional Morphology	I. Beritashvili Institute of Physiology	The Morphologic Changes of Structural Elements of Rat Hippocampus Provoked by Experimental Temporal Lobe Epilepsy
<b>Ryan T. Paitz</b>	Physiology/Functional Morphology	Illinois State University	Putative role for the brain in temperature-dependent sex determination
<b>Maria Thaker</b>	Physiology/Functional Morphology	Indiana State University	Maternal Stress and Dynamics of Alternative Reproductive Tactics in Male Offspring
<b>Jonathan W. Atwell</b>	Behavioral Ecology	Indiana University - Bloomington	Hormones, Plasticity, and Evolution Following Colonization of a Novel, Anthropogenic Environment
<b>Jeff D. Cummings</b>	Physics/Astronomy	Indiana University - Bloomington	Lithium Abundance Of NGC 6253 - The Most Metal-Rich Open Cluster

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<b>Stephaney S. Puchalski</b>	Paleontology/Sedimentation	Indiana University - Bloomington	Investigation of the Ultrastructural Basis of Taphonomic Biases Against Preservation of Polyplacophorans
<b>Weiguo Yao</b>	Cell Biology/Biochemistry	Indiana University School of Medicine	The GH/IGF-I axis and postnatal growth of weaver mutant mice
<b>Maria G. Palacios</b>	Behavioral Ecology	Iowa State University	Effect of Age on the Trade- off between Reproductive Effort and Immune Function in Tree Swallows Tachycineta Bicolor
<b>Daniel A. Lee</b>	Cell Biology/Biochemistry	Johns Hopkins University School of Medicine	Molecular Basis of Cell Fate Specification in the Mammalian Hypothalamus
<b>Frank J. Varriale</b>	Paleontology/Sedimentation	Johns Hopkins University School of Medicine	Testing for Dinosaur- Angiosperm Coevolutionary Relationships with an Analysis of Marginocephalian Dental Microwear and Jaw Morphology
<b>Laura E. Christianson</b>	Engineering	Kansas State University	Assessing the Use of Poplars for Hydraulically Controlling a Groundwater Plume
<b>Sadie K. Reed</b>	Ecology	Kent State University	The Maintenance of Androdioecy via Metapopulation Dynamics in the Clam Shrimp Eulimnadia feriensis
<b>Patrick W. Belmont</b>	Hydrology/Geomorphology	Lehigh University	Long-term Erosion Rate Response to Fault Activity in the Lemhi Range, Eastern Idaho
<b>Karl W. Wegmann</b>	Tectonics/Geophysics	Lehigh University	Broadband Geodesy, Great Earthquakes, and Vertical Tectonics of the Hellenic Subduction Zone, Crete, Greece

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<b>Anna Ploshnitsa</b>	Conservation Biology	Lomonosov Moscow State University	Changes in the Genetic Diversity of the Endangered Mednyi Island Arctic Fox Population ( <i>Alopex lagopus semenovi</i> Ognev 1931) Passed through a æBottleneckÆ
<b>Alice B. Dennis</b>	Ecology	Louisiana State University-Baton Rouge	Cold Tolerance and Cryptic Species in <i>Melampus bidentatus</i>
<b>Ron I. Eytan</b>	Systematics/Evolutionary Biology	Louisiana State University-Baton Rouge	Phylogenetic Analysis of Microhabitat Differentiation and Metabolic Rate in the Reef Fish Genus <i>Acanthemblemaria</i>
<b>Claudia Leonardi</b>	Computer Science/Mathematics	Louisiana State University-Baton Rouge	Evaluation of Mathematical Processes and Calibration Statistics on Diode Arrays Generated Data
<b>Terrence A. McCloskey</b>	Paleontology/Sedimentation	Louisiana State University-Baton Rouge	Proxy Hurricane Records for the Western and Southern Caribbean
<b>Luciano N. Naka</b>	Systematics/Evolutionary Biology	Louisiana State University-Baton Rouge	Diversification Processes Inferred from Avian Suture Zones and Areas of Contact in an Interfluvium in Northwestern Amazonia
<b>Robert E. Singleton</b>	Chemistry	Louisiana State University-Baton Rouge	Nanoparticle Synthesis
<b>Michael C. Frank</b>	Psychology	Massachusetts Institute of Technology	Learning Words to Talk about the World: linguistic Representations Underlying Word Segmentation and Word Learning
<b>Birgit Ziesemann</b>	Behavioral Ecology	Massey University	Social organisation and mating system of the North Island brown kiwi ( <i>Apteryx mantelli</i> ) in a high-density population
<b>Chika C. Nwugo</b>	Cell Biology/Biochemistry	Miami University Ohio	A Proteomic Study on the Molecular Roles of Silicon Nutrition in Cadmium Tolerance of Rice ( <i>Oryza sativa</i> L.)
<b>Erica C. Raber</b>	Physics/Astronomy	Miami University Ohio	A Novel Cellular High Pressure Imaging Chamber

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<b>Sarah R. Benson-Amram</b>	Behavioral Ecology	Michigan State University	Social Complexity and Comparative General Intelligence in Mammalian Carnivores
<b>Andrew M. Kramer</b>	Ecology	Michigan State University	Limitations to Recovery of Hesperodiaptomus Shoshone after Exotic Fish Eradication: a Multi-lake Test of the Allee Effect
<b>Kevin R. Theis</b>	Behavioral Ecology	Michigan State University	A Bacterial Mechanism for Group-specific Odors in Mammals
<b>Matthew L. Ellison</b>	Physiology/Functional Morphology	Mississippi State University	Pseudomonas aeruginosa Outer Membrane Properties Associated with Intrinsic Triclosan Resistanc
<b>Farhan Ali</b>	Systematics/Evolutionary Biology	National University of Singapore	Using Non-Invasive Samples for the Study of Brain and Cognition Genes in Primate
<b>Erin E. Schirtzinger</b>	Systematics/Evolutionary Biology	New Mexico State University	Assessing Temporal Concordance of Parrot Radiations in the New World: A Species-level Phylogeny of Neotropical Psittaciformes
<b>Timothy R. Dwyer</b>	Ecology	Northeastern University	The Role of Genetic Diversity in Marine Community Resistance to Biological Invasions
<b>Zachary M. Weil</b>	Physiology/Functional Morphology	Ohio State University	Photoperiodic Regulation of Experimental Autoimmune Encephalomyelitis
<b>Zhenyue Zhu</b>	Physics/Astronomy	Oklahoma State University	Intrinsic Spin Hall Effect in Semiconductors with Spin Orbital Interaction
<b>Julie M. Ray</b>	Ecology	Old Dominion University	Effects of Amphibian Decline on the Trophic Ecology of Mollusk-Eating Snakes
<b>Holly R. Barnard</b>	Hydrology/Geomorphology	Oregon State University	Illuminating the Black Box: The Influence of Forest Transpiration on Stream Discharge in a Small Headwater Catchment
<b>Peggy Chen</b>	Psychology	Pennsylvania State University	Orienting Visual Attention in Space

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<b>Charles S. Speal</b>	Anthropology	Pennsylvania State University	The Biological Impacts of Expanding Cultural Systems: Roman Imperialism, Incipient Urbanism, and Skeletal Biology in Contexts of Increasing Social Complexity
<b>Mark E. Laidre</b>	Behavioral Ecology	Princeton University	Vulnerability and the Evolution of Honest Signaling
<b>Jillian T. Detwiler</b>	Ecology	Purdue University-West Lafayette	Population re-structuring in Complex Life Cycles: The Effects of Intermediate Host Specificity and Vagility on Parasite Transmission Dynamics
<b>Kevin W. Cormier</b>	Chemistry	Saint Louis University	Improved Catalysts for Alkene Hydroamination
<b>Martha E. Sedabres</b>	Chemistry	Saint Louis University	A Thermodynamic Study of Naturally Occurring 2x2 Loops in RNA
<b>Adam J. Lowe</b>	Cell Biology/Biochemistry	Salisbury University	Docosahexenoic Acid and the Metastatic Capacity of Murine Melanoma Cells
<b>Suzanne E. Tank</b>	Ecology	Simon Fraser University	The effect of landscape-level variation of dissolved organic carbon on food web structure in Mackenzie Delta lakes
<b>Chihiro Shibata</b>	Anthropology	Southern Illinois University-Carbondale	Male-Female Interactions in Captive Cotton-top Tamarins ( <i>Saguinus oedipus</i> )
<b>Megan L. Stallman</b>	Behavioral Ecology	St Mary's College of Maryland	An Investigation of the Response of a Population of Red-winged Blackbirds ( <i>Agelaius phoeniceus</i> ) to Variable Songs from Foreign Populations
<b>Amelia L. Fort</b>	Behavioral Ecology	St. Mary's College of Maryland	The Function of Bioluminescence in the Ctenophore <i>Mnemiopsis leidyi</i> : a Test of the "burglar-alarm" Hypothesis



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<b>Rebecca A. Urban</b>	Ecology	State University of New York at Binghamton	Can the Presence of an Invasive Species Alter Lake Chemistry due to Suppression of a Native Macrophyte?
<b>Chrissa A. Wright</b>	Cell Biology/Biochemistry	State University of New York at Plattsburgh	Structural and Functional Analysis of the Hemoglobin Encoding Gene in Paramecium tetraurelia
<b>Christian Holzner</b>	Physics/Astronomy	State University of New York at Stony Brook	Confronting a Trio of Neutrino Puzzles
<b>Jason J. Williams</b>	Behavioral Ecology	State University of New York at Syracuse	Phototactic Swimming and Diel Horizontal Migration by Zooplankton
<b>Erik R. Hosler</b>	Chemistry	Susquehanna University	Synthesis and Evaluation of Heteroscorpionate Tungsten Complexes Separated by Bridging Ligands
<b>Megan B. Nelson</b>	Systematics/Evolutionary Biology	Swarthmore College	BMP7 and the Evolution of the Diastataxic Avian Wing
<b>Adam C. Stein</b>	Systematics/Evolutionary Biology	Syracuse University	Plumage Evolution in Bearded Manakins
<b>Viola M. Meadors</b>	Chemistry	Tennessee Technological University	Extraction of Cesium by Various Functionalized Calix[4]arene-Crown-6 Ethers
<b>Leigh M. Fall</b>	Paleontology/Sedimentation	Texas A&M University-College Station	The Role of Local and Regional Processes on Diversity of Fossil Communities
<b>Quinn C. Emmering</b>	Behavioral Ecology	Texas Tech University	Do Songbirds use Proximate Cues to Avoid Predators in Space?
<b>Molly J. Dickens</b>	Conservation Biology	Tufts University	Does Stress Compromise Translocation and Reintroduction Efforts?
<b>Alana J. May</b>	Physics/Astronomy	University of Alabama at Tuscaloosa	How Large is Too Large?: the Black Hole Upper Mass Limit
<b>Michael M. McGlue</b>	Paleontology/Sedimentation	University of Arizona	The Modern Sedimentology of Andean Foreland Basin Lakes: Keys to Understanding Lacustrine Deposits in Ancient Foreland Basins

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<b>Alison M. Behie</b>	Behavioral Ecology	University of Calgary	The interaction of Nutrition, Stress levels and Parasite Load in Determining Black Howler Monkey Population Density in Monkey River, Belize
<b>Melanie C. Burger</b>	Chemistry	University of Calgary	Design of Liposome Microarray Systems for High Throughput Protein-Lipid Membrane Interaction Studies
<b>Stephanie L. Bush</b>	Behavioral Ecology	University of California-Berkeley	Ink Release by Deep-Sea Squids: A Chemical Deterrent to Predation?
<b>Samuel L. Diaz-Munoz</b>	Behavioral Ecology	University of California-Berkeley	Genetic Test of Adaptive Benefits of Cooperative Male Parental Care in Tamarins
<b>Stacy C. Kozakavich</b>	Anthropology	University of California-Berkeley	Archaeology and History of Advance, Tent-Village of the Kaweah Co-operative Colony, ca. 1886-1892.
<b>Andrew H. Lee</b>	Systematics/Evolutionary Biology	University of California-Berkeley	Evolution of Quadrupedality in Dinosaurs and the Ontogenetic and Mechanical Implications on Limb Bone Histology
<b>Becky L. Williams</b>	Behavioral Ecology	University of California-Berkeley	Chemical Defense from Predation in Hatchlings of the Blue Ringed Octopus <i>Hapalochlaena lunulata</i>
<b>Christy M. Bowles</b>	Ecology	University of California-Davis	Do alternate Stable States Exist in Bodega Harbor Mudflats?
<b>Susan M. Glover</b>	Anthropology	University of California-Davis	Resource Extraction Economics of a Boom Town, Gothic Colorado 1878-1900.
<b>Heidy L. Contreras</b>	Physiology/Functional Morphology	University of California-Irvine	The Persistence of Discontinuous Respiration in the Genus <i>Gerris</i> : The role of Water Conservation on Respiratory Patterns
<b>Brian C. Hart</b>	Physics/Astronomy	University of California-Irvine	Cosmology Constraints from a Unified Picture of Galaxy Cluster Dynamical State and its Evolution

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<b>Nelida B. Pohl</b>	Behavioral Ecology	University of California-Irvine	Blue Opsin Gene-mediated Blue Color Vision in <i>Lycaena</i> Butterflies
<b>Kimberly A. Dienes</b>	Psychology	University of California-Los Angeles	The Stress Response of Depressed and At-Risk Individuals
<b>Abbey S. Eisenhower</b>	Psychology	University of California-Los Angeles	Building relationships at school: An intervention to improve early teacher-student relationships for children with externalizing behavior problems
<b>Brittany L. Enzmann</b>	Behavioral Ecology	University of California-Los Angeles	Queen Investment and Implications for Colony Founding Strategies in Harvester Ants (genus <i>Pogonomyrmex</i> )
<b>Karen M. Kapheim</b>	Behavioral Ecology	University of California-Los Angeles	The Evolution of Cooperation and Social Correlates of Individual Recognition
<b>John E. McCormack</b>	Behavioral Ecology	University of California-Los Angeles	Is Blue Egg Color a Sexually Selected Trait in Mexican Jays?
<b>Andrew W. Froehle</b>	Anthropology	University of California-San Diego	Energy Expenditure in Postmenopausal Forager Women: An Experimental Model Based on North American Women
<b>Jian Shen</b>	Chemistry	University of California-San Diego	Interfacial Bonding Structure and Kinetic Mechanism of the High-K on III-V Compound Semiconductor
<b>Robin A. Pelc</b>	Ecology	University of California-Santa Barbara	Production and Dispersal of a Harvested Mussel in South African Marine Reserves
<b>Peter C. Lippert</b>	Tectonics/Geophysics	University of California-Santa Cruz	Paleogene Elevation in North Central Tibet: Testing Models for Growth of the Tibetan Plateau

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<b>Heather E. Mostman-Liwanag</b>	Physiology/Functional Morphology	University of California-Santa Cruz	Thermal Limitations of Northern Fur Seals ( <i>Callorhinus ursinus</i> ): A Comparative Study with California Sea Lions ( <i>Zalophus californianus</i> )
<b>Christopher A. Howey</b>	Ecology	University of Central Arkansas	Sex-based Differences in Habitat Selection in a Turtle Species that does not use Aerial Basking to Thermoregulate: Implications for Reproduction
<b>Lis C. Nelis</b>	Ecology	University of Chicago	Synergistic Interactions Between Invasive Species
<b>Kara B. Nuss</b>	Behavioral Ecology	University of Chicago	The Function of Introductory Copulations in Captive Goeldi's Monkeys
<b>Maria G. Antoniou</b>	Engineering	University of Cincinnati	Destruction of the Cyanobacterial Toxins Microcystin-LR and Cylindrospermopsin with Advanced Oxidation Technologies (AOTs)
<b>Devin P. Buick</b>	Paleontology/Sedimentation	University of Cincinnati	Exploring the Evolution of Morphological Disparity within and among Species of the Bivalve Genus <i>Cucullaea</i>
<b>Anthony A. Kramer</b>	Paleontology/Sedimentation	University of Cincinnati	Characterization of a New Cambrian Lagerstätte: a New Non-Uniformitarian Biofacies
<b>Ana C. Londono</b>	Hydrology/Geomorphology	University of Cincinnati	Erosion Evolution in Arid Environments Derived from the Study of Pre-Columbian Agricultural Terraces in Southern Peru
<b>Krista D. Fish</b>	Anthropology	University of Colorado at Boulder	The Community Ecology of Sympatric Nocturnal Primates and Bats: Understanding Dietary Niche Separation at the Blyde River Canyon Nature Reserve, South Africa

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<b>Jessica D. Hedgepeth Balkin</b>	Anthropology	University of Colorado at Boulder	The Late Classic Collapse at Rio Viejo, Oaxaca: Commoner Economic Response
<b>Kevin Heng</b>	Physics/Astronomy	University of Colorado at Boulder	The Vanishing Shock Emission in Supernova Remnant 1987A?
<b>Ken M. Keefover-Ring</b>	Ecology	University of Colorado at Boulder	The Interaction Between Herbivory and Pollination in <i>Monarda fistulosa</i>
<b>Brian J. Poller</b>	Physics/Astronomy	University of Colorado at Boulder	The Resolution of Sun Occluding Space Debris
<b>Helene T. Hegaret</b>	Ecology	University of Connecticut	Investigation of the Role of the Hemocytes in the Harmful Algae-bivalve Mollusc Trophic Interaction
<b>Susan Z. Herrick</b>	Behavioral Ecology	University of Connecticut	Behavioral Interactions Among Breeding Male Bullfrogs ( <i>Rana catesbeiana</i> ) and Green Frogs ( <i>Rana clamitans</i> ) at Different Spatial and Temporal Scales
<b>Brian P. Danysh</b>	Physiology/Functional Morphology	University of Delaware	Characterization of Diffusion Coefficients of Molecules in the Lens Capsule
<b>Jo E. Halliday</b>	Ecology	University of Edinburgh	Carnivores as sentinels of emerging and resurging human diseases in East Africa
<b>Leslie S. Babonis</b>	Physiology/Functional Morphology	University of Florida	To Drink or not to Drink: Behavioral Osmoregulation in an Estuarine Snake
<b>David G. Buck</b>	Hydrology/Geomorphology	University of Florida	Linking Land Use Patterns and Aquatic Ecosystem Function in the Temash Watershed, Belize
<b>Jill E. Jankowski</b>	Ecology	University of Florida	Interspecific Territoriality and Habitat Specialization as Potential Mechanisms for Avian Species Replacements along Tropical Altitudinal Gradients

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<b>Sara J. Margolin</b>	Psychology	University of Florida	Comprehension of Negation in Aging: An Assessment of Inhibition Difficulties
<b>Melissa A. Toups</b>	Systematics/Evolutionary Biology	University of Florida	Using <i>Pthirus pubis</i> as a Marker for Human Evolutionary History
<b>Dunja L. Trunk</b>	Psychology	University of Florida	Effects of Task Instructions on Off-Topic Verbosity in Young and Older Adults
<b>Evelina Basenko</b>	Cell Biology/Biochemistry	University of Georgia	Investigation of the Genetic Requirements for T-circle and T-loop Formation
<b>Noha M. Mesbah</b>	Cell Biology/Biochemistry	University of Georgia	Energy Conservation and Bioenergetic Parameters in a Novel Group of Extremophiles, the Halophilic Alkalithermophiles
<b>Katharine L. Stuble</b>	Ecology	University of Georgia	Impacts of <i>Solenopsis invicta</i> on seed dispersal in the longleaf pine ecosystem
<b>Tammy Y. Watkins</b>	Anthropology	University of Georgia	Children's Subsistence Contributions to Pastoral Households in the Drylands of East Africa
<b>Joanne L. Birch</b>	Systematics/Evolutionary Biology	University of Hawaii at Manoa	Lineage Diversification within Insular Flora: The Systematics and Biogeography of the Pacific Genus <i>Astelia</i> (Asteliaceae)
<b>Paula I. Capece</b>	Conservation Biology	University of Hawaii at Manoa	Estimating Jaguar Densities Using Capture-recapture Analysis: Comparison of a Protected Area and an Unprotected Area in Roraima, Northern Brazil
<b>Stacey J. Dunn</b>	Behavioral Ecology	University of Idaho	Inbreeding in the National Bison Range, Montana Pronghorn Population
<b>Jeffrey A. Buechler</b>	Anthropology	University of Illinois at Chicago	Classic Maya Socio-Political Interactions in Ancient Guatemala
<b>Sara E. Emerson</b>	Conservation Biology	University of Illinois at Chicago	Conservation and Habitat Requirements of the Sykes Monkey ( <i>Cercopithecus albogularis erythrarchus</i> )

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<b>Niraj J. Muni</b>	Engineering	University of Illinois at Chicago	Light-regulated GABA <sub>c</sub> receptors
<b>Ambarish S. Pawar</b>	Engineering	University of Illinois at Chicago	Retinal Signal Processing Studied by Ganglion Cell and Electroretinographic Recording
<b>Mahadevabharath R. Somayaji</b>	Engineering	University of Illinois at Chicago	Intracranial Dynamics and Drug Transport Mechanism in the Human Brain
<b>Michael P. Carey</b>	Ecology	University of Illinois at Urbana-Champaign	Exploring Fish Diversity as a Determinant of Ecosystem Properties in Aquatic Food Webs
<b>Melissa L. Raguette-Schofield</b>	Anthropology	University of Illinois at Urbana-Champaign	Feeding Behavior and the Evolution of Extended Juvenility in Primates
<b>Emily J. Wisseman</b>	Cell Biology/Biochemistry	University of Illinois at Urbana-Champaign	THE IMPACT OF ENVIRONMENTAL CHANGES ON MICROBIAL COMMUNITIES PRESENT IN CORAL REEFS.
<b>Sandra A. Yi</b>	Systematics/Evolutionary Biology	University of Illinois at Urbana-Champaign	Parasite-host Interactions Between Aquatic Mites (Acari: Hydrachnidia) and Mosquitoes (Diptera: Culicidae) in Urban and Rural Freshwater Habitats
<b>Jesse T. Koch</b>	Paleontology/Sedimentation	University of Iowa	Sequence Stratigraphy and Facies Analyses of the Lower Dakota Formation, Southeast Nebraska
<b>Cheyenne M. Munson</b>	Psychology	University of Iowa	Acoustic Cues for Anticipation in Speech Perception
<b>Nicholas D. Levens</b>	Systematics/Evolutionary Biology	University of Kansas	Systematics and Historical Biogeography of the Alternifolium Group of the Flowering Plant Genus Chrysosplenium (Saxifragaceae)
<b>Julie B. Retrum</b>	Petrology/Geochemistry	University of Kansas	A Paleoclimatic and Paleohydrologic Reconstruction of Pleistocene Fossil Lake, Oregon Using Faunal Assemblages and Stable Isotope Analyses

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<b>Mario H. Weick</b>	Psychology	University of Kent at Canterbury	The Effects of Power on Knowledge Accessibility within a Person x Situation Framework
<b>Julie H. Oestreich</b>	Physiology/Functional Morphology	University of Kentucky	The Effects of P2Y12 Polymorphisms on Platelet Receptor Density and Activation
<b>Yoriko Saeki</b>	Ecology	University of Kentucky	Brood Determination of the Polyembryonic Parasitoid, <i>Copidosoma bakeri</i> (Howard)
<b>Roseline Devariste</b>	Physiology/Functional Morphology	University of Louisiana at Lafayette	Are Elicitor Proteins Responsible for Necrosis and Lesions During Witches' Broom Disease?
<b>Ali M. Rabatsky</b>	Systematics/Evolutionary Biology	University of Louisiana at Lafayette	Evolutionary Vestigialization of Complex Features using a Rattlesnake Model
<b>Gordon R. Bromley</b>	Hydrology/Geomorphology	University of Maine, Orono	Reconstructing the Late-Quaternary Glacial History of Nevado Coropuna, Peru
<b>Benjamin B. Harter</b>	Ecology	University of Manitoba	Where's the Beef?: Effects of Global Warming and Arctic Pack Ice Retreat on the Breeding Success of a Marine Top Predator, the Black Guillemot ( <i>Cephus grylle</i> )
<b>Lynna M. Kiere</b>	Behavioral Ecology	University of Maryland, Baltimore County	Exploring Female Coloration in Streak-Backed Orioles: Variation, Behavior, and Evolution
<b>Genevieve R. Spanjer</b>	Behavioral Ecology	University of Maryland, College Park	An Investigation of Social Learning & Decision-making while Foraging in the Short-tailed Fruit Bat, <i>Carollia perspicillata</i>
<b>Ana M. Gabela</b>	Ecology	University of Massachusetts Amherst	Site Fidelity and Human Impact on the Medium Ground Finch ( <i>Geospiza foris</i> ) on Santa Cruz, Galápagos Islands



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<b>Michelle A. Rensel</b>	Physiology/Functional Morphology	University of Memphis	Food Supplementation, Hatching Asynchrony, and Nutritional Status of Florida Scrub-Jay ( <i>Aphelocoma coerulescens</i> ) Nestling
<b>Martha L. Carlson-Mazur</b>	Ecology	University of Michigan-Ann Arbor	Evapotranspiration and Ground-Water Flow Systems in a Fresh-Water Coastal Ridge-and-Swale System
<b>Lucia A. Luna-Wong</b>	Systematics/Evolutionary Biology	University of Michigan-Ann Arbor	Why are the Andes so Diverse? Testing Models of Speciation and Morphological Diversity
<b>Michael D. Dixon</b>	Ecology	University of Minnesota Duluth	Potential Local Adaptation of a Tumbling Flower Beetle Across the Prairie/forest Boundary
<b>Rebecca G. Deason</b>	Psychology	University of Minnesota, Twin Cities	Examining early visual object priming with brain event-related potentials
<b>Johannes Hubmayr</b>	Physics/Astronomy	University of Minnesota, Twin Cities	Sensitivity of EBEX Detectors
<b>Michael B. Milligan</b>	Physics/Astronomy	University of Minnesota, Twin Cities	Broadband Millimeter Wavelength Anti-Reflection Technology for Observational Cosmology
<b>Ravi Goyal</b>	Physiology/Functional Morphology	University of Mississippi	Developmental Regulation of Serotonin Signaling in Ovine Pulmonary Arteries
<b>Patrick C. Yamnik</b>	Behavioral Ecology	University of Mississippi	Factors Affecting Natal Dispersal in Two Species of <i>Ambystoma</i>
<b>Iris I. Levin</b>	Ecology	University of Missouri-St. Louis	Effects of host sociality on parasite prevalence and intensity in Great Frigatebirds ( <i>Fregata minor</i> ) on Isla Genovesa, Galapagos
<b>Cassandra M. Martin</b>	Behavioral Ecology	University of Nebraska at Lincoln	Association Costs in the Female Field Cricket, <i>Gryllus lineaticeps</i>
<b>Stuart C. Willis</b>	Systematics/Evolutionary Biology	University of Nebraska at Lincoln	Historical Biogeography of Neotropical Fishes from the Orinoco and Essequibo River Basins

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<b>Shahnewaz Mohammad</b>	Petrology/Geochemistry	University of Nevada, Reno	Arsenic-sulfide Oxidation: Kinetics and Reaction Mechanism Using Mixed Flow Reactor and Surface Microscopic Experiments
<b>Justin M. Ferrentino</b>	Engineering	University of New Hampshire	Microalgal Oil Extraction and In-situ Transesterification
<b>Jedediah D. Frechette</b>	Hydrology/Geomorphology	University of New Mexico	Geomorphic Response to Fire and Climate Change in Ponderosa Pine Forests, Sacramento Mountains, NM
<b>Benjamin J. Swanson</b>	Hydrology/Geomorphology	University of New Mexico	Impact of Holocene Sediment Dynamics and Historical Dam Construction on the Rio Chama, New Mexico: Implications for River Management
<b>Mukta Chakraborty</b>	Behavioral Ecology	University of North Carolina at Chapel Hill	Neuro-endocrine Mechanisms of Female Receptive Behavior in Tungara Frogs ( <i>Physalaemus pustulosus</i> )
<b>Jesse W. Davis</b>	Petrology/Geochemistry	University of North Carolina at Chapel Hill	Thermochronology and Cooling Histories of Cretaceous Plutons in the Sierra Nevada Batholith, California: Implications for Incremental Pluton Assembly
<b>Matthew B. Fariss</b>	Anthropology	University of North Carolina at Chapel Hill	Archaeological Survey of the Upper Moche Valley, Peru Phase 2: Upper Sinsicap River Corridor
<b>Andrew C. Foster</b>	Physics/Astronomy	University of North Carolina at Chapel Hill	The Rise of Skynet: UNC-Chapel Hill's Global Robotic Telescope Network
<b>Joshua B. Haislip</b>	Physics/Astronomy	University of North Carolina at Chapel Hill	Gamma Ray Bursts: Probing the Early Universe
<b>Ashley G. Rivenbark</b>	Cell Biology/Biochemistry	University of North Carolina at Chapel Hill	Characterization of DNA Sequence Elements That Direct CpG Methylation of Breast Cancer Tumor Suppressor Genes

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<b>Ben M. Shields</b>	Anthropology	University of North Carolina at Chapel Hill	Deconstructing Time-Progressive Models of Prehistoric Warfare in the Southeastern United States
<b>Adam S. Trotter</b>	Physics/Astronomy	University of North Carolina at Chapel Hill	Observations and Modeling of Gamma-Ray Burst Afterglows in the Blue
<b>Amy K. Kilbarger</b>	Cell Biology/Biochemistry	University of North Carolina at Greensboro	The Effect of Iron Excess on Osteoblast Phenotypic Development
<b>Jeffrey D. Overton</b>	Physiology/Functional Morphology	University of North Carolina at Wilmington	Diffusive Constraints on Aerobic Metabolic Flux in Muscle
<b>Alyson G. Urian</b>	Ecology	University of North Florida	Potential for Range Expansion of the Invasive Green Mussel, <i>Perna viridis</i> : Reproductive Cycle and Larval Dispersal from a Point Source in St. Augustine, FL
<b>Sally A. Entekin</b>	Ecology	University of Notre Dame	Food Web Dynamics of Macroinvertebrate Communities in Historically Logged, Headwater Streams in the Upper Peninsula of Michigan
<b>Ivan Mateo</b>	Conservation Biology	University of Rhode Island	Assessing Connectivity and Essential Fish Habitat for Reef Fish in Mangrove and Seagrass Environments Using otolith Microchemistry
<b>Binfeng Xia</b>	Chemistry	University of South Carolina	Pharmacokinetics of a Novel Antihypertensive Agent MS23 i.v. in Rats
<b>Paul K. Sanford</b>	Paleontology/Sedimentation	University of South Florida	Age Estimation and Stratigraphic Resolution of Florida's Plio-Pleistocene Shell Beds Using Amino Acid Racemization Rates in Fossil Mollusks

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<b>Kevin E. Burns</b>	Tectonics/Geophysics	University of Tennessee-Knoxville	Developing Empirical Relationships Between Ground Penetrating Radar Reflection Amplitudes and Hydrologic Tracer Concentrations for Improving Characterization of Channelized Fluid Flow in Subhorizontal Bedrock Fractures
<b>Martin A. Nuñez</b>	Ecology	University of Tennessee-Knoxville	The Role of Mycorrhizal Fungi in Pinaceae Invasion on Isla Victoria, Nahuel Huapi National Park, Argentina
<b>Joshua J. Adams</b>	Physics/Astronomy	University of Texas at Austin	A Prototype Survey for Starforming High Redshift Galaxies
<b>Bhart-Anjan S. Bhullar</b>	Systematics/Evolutionary Biology	University of Texas at Austin	Morphology, ontogeny, and phylogeny of Recent and fossil members of the unusual lizard clade Xenosauridae.
<b>Stephen H. Patterson</b>	Systematics/Evolutionary Biology	University of Texas at Austin	Life-History Tradeoffs and the Evolution of the Acute Stress Response
<b>Ian U. Roederer</b>	Physics/Astronomy	University of Texas at Austin	Isotopic Abundances of Neutron-Capture Elements in Metal-Poor Stars
<b>Naomi E. Levin</b>	Paleontology/Sedimentation	University of Utah	An Isotopic Study of East African Paleoaridity in the Pliocene and Pleistocene
<b>Jenica M. Allen</b>	Ecology	University of Virginia	The Role of Enemy Release and the Evolution of Increased Competitive Ability in the Invasion of Pacific U.S. Estuaries by <i>Spartina alterniflora</i> Loisel
<b>Ricardo A. Covarrubias</b>	Physics/Astronomy	University of Washington	Does Metallicity Affect the Fate of Massive Stars?
<b>David C. Haak</b>	Systematics/Evolutionary Biology	University of Washington	Evolution of a Spice
<b>Heather D. Heuser</b>	Petrology/Geochemistry	University of Washington	Holocene Climatic Variability Based on the Isotopic Analysis of Diatoms in Lake Sediment from East Greenland

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<b>Noelle J. Machnicki</b>	Ecology	University of Washington	The Unseen Role of Fungal Pathogens in Driving Biodiversity
<b>Jennifer Patterson</b>	Engineering	University of Washington	Controlled Release of Osteoprotegerin from Hydrogel Scaffolds for Bone Regeneration
<b>Rok Roskar</b>	Physics/Astronomy	University of Washington	Supercomputing Simulations of Disk Galaxy Truncation
<b>Kathryn E. Devine</b>	Physics/Astronomy	University of Wisconsin-Madison	Ammonia and CCS Studies of GLIMPSE Infrared Dark Clouds
<b>Penelope J. Lancaster</b>	Petrology/Geochemistry	University of Wisconsin-Madison	Granitoid Genesis in the South-eastern Adirondack Highlands, New York
<b>Siddharth S. Malu</b>	Physics/Astronomy	University of Wisconsin-Madison	Characterizing Beam Patterns of Antennas in the 75-110 GHz Band for a Novel Interferometer - the MBI
<b>Christopher A. Podlesnik</b>	Psychology	Utah State University	The Effects of Naltrexone on the Resurgence of Alcohol Self-administration in Rats: A Novel Animal Model of Relapse
<b>Jennifer L. Mortensen</b>	Conservation Biology	Villanova University	Effects of habitat loss on social ecology and reproduction of the endangered White-breasted Thrasher ( <i>Ramphocinclus brachyurus</i> )
<b>Sheena A. Friend</b>	Systematics/Evolutionary Biology	Virginia Polytechnic Institute and State University	Evolution of Major Peanut Allergen Arah2
<b>Micah J. Jessup</b>	Tectonics/Geophysics	Virginia Polytechnic Institute and State University	Detailed Thermobarometric Analysis of the Top of the Greater Himalayan Slab, Everest Massif, Nepal: Implications for Testing Channel Flow Models

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<b>Amanda L. Malueg</b>	Behavioral Ecology	Virginia Polytechnic Institute and State University	Investigation of Physiological Mechanisms for Reproductive Suppression of Helpers in a Cooperatively Breeding Species
<b>Dawn M. Delo</b>	Cell Biology/Biochemistry	Wake Forest University School of Medicine	Cardiac Tissue Regeneration using Amniotic Fluid Derived Stem Cell
<b>Tiffany L. Fisher</b>	Physiology/Functional Morphology	Wake Forest University School of Medicine	Thalamic Integration of Synaptic Input
<b>JaNae Joyner</b>	Physiology/Functional Morphology	Wake Forest University School of Medicine	Role of the Novel Angiotensin [Ang-(1-7)] in Volume Regulation in Pregnancy
<b>Doris P. Molina</b>	Cell Biology/Biochemistry	Wake Forest University School of Medicine	The Effect of Age and Growth Hormone/Insulin-like Growth Factor Axis on Glutamate Receptor Subunit Levels
<b>James C. Mallen</b>	Physiology/Functional Morphology	Wartburg College	Gender Differences in the Effects of Nicotine on Spatial Learning, Memory, and Neurogenesis in Aged Adult Rats
<b>Sebastian F. Brandt</b>	Physics/Astronomy	Washington University in St. Louis	Investigating the conduction velocity asymmetry in feedback loops of the avian visual system
<b>Katherine M. Grillo</b>	Anthropology	Washington University in St. Louis	A Report on the Ceramics from Guli Waabayo Subsistence, Mobility, and Material Culture in Prehistoric Southern Somalia
<b>Brad J. Oberle</b>	Systematics/Evolutionary Biology	Washington University in St. Louis	Inferring the History of Adaptation to Climate from the Diversity and Distribution of Dodecatheon (Primulaceae)
<b>Thomas J. Sanger</b>	Systematics/Evolutionary Biology	Washington University in St. Louis	Developmental Bases of Anolis Limb Length Variation

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<b>Yun Wang</b>	Physics/Astronomy	Washington University in St. Louis	Extraordinary Electroconductance in In-GaAs Metal-semiconductor Hybrid Structures
<b>Noah C. Morgan</b>	Cell Biology/Biochemistry	Wayne State University	Caldesmon Control of Microvascular Tone Following Traumatic Brain Injury
<b>Zachary E. Papper</b>	Systematics/Evolutionary Biology	Wayne State University	Evolution of primate regulatory regions: A comparative genomic analysis of LDHA and LDHB
<b>Brandon M. Mijal</b>	Hydrology/Geomorphology	Western Washington University	Holocene Glaciation in the Sawtooth Mountains, central Idaho
<b>Mohit Sirohi</b>	Cell Biology/Biochemistry	Widener University	Isolation and Characterization of Parvalbumin Isoforms in Sheepshead and Rainbow Trout
<b>Kevin M. Dean</b>	Chemistry	Willamette University	Understanding Solubility: The Equilibrium Phase Diagram for the Binary Liquid System 3-Butyn-2-one / Water.
<b>Sara E. Carlson</b>	Systematics/Evolutionary Biology	Yale University	Investigation of an Evolutionary Novelty: Epicalyx Evolution and the Adaptive Radiation of Dipsacaceae (Dipsacales) in the Mediterranean Basin
<b>Shanil N. Virani</b>	Physics/Astronomy	Yale University	Supermassive Black Holes at High Energy and High Redshift: Testing the AGN Unification Paradigm