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

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

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

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

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

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

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

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

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

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

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

| Grant Recipient | Research Field | Institution | Study Title |
|--------------------------------|-------------------------------------|---|---|
| Heather E. Mostman- Liwanag | Physiology/Functional Morphology | University of California- Santa Cruz | Thermal Limitations of Northern Fur Seals (Callorhinus ursinus): A Comparative Study with California Sea Lions (Zalophus californianus) |
| Christopher A. Howey | 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 |
| Lis C. Nelis | Ecology | University of Chicago | Synergistic Interactions Between Invasive Species |
| Kara B. Nuss | Behavioral Ecology | University of Chicago | The Function of Introductory Copulations in Captive GoeldiÆs Monkeys |
| Maria G. Antoniou | Engineering | University of Cincinnati | Destruction of the Cyanobacterial Toxins Microcystin- LR and Cylidrospermopsin with Advanced Oxidation Technologies (AOTs) |
| Devin P. Buick | Paleontology/Sedimentation | University of Cincinnati | Exploring the Evolution of Morphological Disparity within and among Species of the Bivalve Genus Cucullaea |
| Anthony A. Kramer | Paleontology/Sedimentation | University of Cincinnati | Characterization of a New Cambrian LagerstΣtte: a New Non-Uniformitarian Biofacies |
| Ana C. Londono | Hydrology/Geomorphology | University of Cincinnati | Erosion Evolution in Arid Environments Derived from the Study of Pre-Columbian Agricultural Terraces in Southern Peru |
| Krista D. Fish | 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 |

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

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

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

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

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

| Grant Recipient | Research Field | Institution | Study Title |
|-----------------------|---------------------------|--|---|
| Shahnewaz Mohammad | Petrology/Geochemistry | University of Nevada, Reno | Arsenic-sulfide Oxidation: Kinetics and Reaction Mechanism Using Mixed Flow Reactor and Surface Microscopic Experiments |
| Justin M. Ferrentino | Engineering | University of New Hampshire | Microalgal Oil Extraction and In-situ Transesterification |
| Jedediah D. Frechette | Hydrology/Geomorphology | University of New Mexico | Geomorphic Response to Fire and Climate Change in Ponderosa Pine Forests, Sacramento Mountains, NM |
| Benjamin J. Swanson | 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 |
| Mukta Chakraborty | Behavioral Ecology | University of North Carolina at Chapel Hill | Neuro-endocrine Mechanisms of Female Receptive Behavior in Tungara Frogs (Physalaemus pustulosus) |
| Jesse W. Davis | 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 |
| Matthew B. Fariss | Anthropology | University of North Carolina at Chapel Hill | Archaeological Survey of the Upper Moche Valley, Peru Phase 2: Upper Sinsicap River Corridor |
| Andrew C. Foster | Physics/Astronomy | University of North Carolina at Chapel Hill | The Rise of Skynet: UNC- Chapel Hill's Global Robotic Telescope Network |
| Joshua B. Haislip | Physics/Astronomy | University of North Carolina at Chapel Hill | Gamma Ray Bursts: Probing the Early Universe |
| Ashley G. Rivenbark | 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 |

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

| Grant Recipient | Research Field | Institution | Study Title |
|------------------------|-------------------------------------|---------------------------------------|--|
| Kevin E. Burns | 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 |
| Martin A. Nu±ez | Ecology | University of Tennessee- Knoxville | The Role of Mycorrhizal Fungi in Pinaceae Invasion on Isla Victoria, Nahuel Huapi National Park, Argentina |
| Joshua J. Adams | Physics/Astronomy | University of Texas at Austin | A Prototype Survey for Starforming High Redshift Galaxies |
| Bhart-Anjan S. Bhullar | Systematics/Evolutionary Biology | University of Texas at Austin | Morphology, ontogeny, and phylogeny of Recent and fossil members of the unusual lizard clade Xenosauridae. |
| Stephen H. Patterson | Systematics/Evolutionary Biology | University of Texas at Austin | Life-History Tradeoffs and the Evolution of the Acute Stress Response |
| Ian U. Roederer | Physics/Astronomy | University of Texas at Austin | Isotopic Abundances of Neutron-Capture Elements in Metal-Poor Stars |
| Naomi E. Levin | Paleontology/Sedimentation | University of Utah | An Isotopic Study of East African Paleoaridity in the Pliocene and Pleistocene |
| Jenica M. Allen | Ecology | University of Virginia | The Role of Enemy Releasae and the Evolution of Increased Competitive Ability in the Invasion of Pacific U.S. Estuaries by Spartina Alternfilora Loisel |
| Ricardo A. Covarrubias | Physics/Astronomy | University of Washington | Does Metallicity Affect the Fate of Massive Stars? |
| David C. Haak | Systematics/Evolutionary Biology | University of Washington | Evolution of a Spice |
| Heather D. Heuser | Petrology/Geochemistry | University of Washington | Holocene Climatic Variability Based on the Isotopic Analysis of Diatoms in Lake Sediment from East Greenland |

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

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

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