

**Grants from the October 15, 2010 Application Deadline
Alphabetical by Research Field**

Research Field	Name	Institution	Title
Anthropology	Mackenzie Bergstrom	University of Calgary	Dominance, nutrition and energetic condition in female white-faced capuchin monkeys
Anthropology	Habiba Chirchir	George Washington University	Pilot study on trabecular bone architecture of humans and other mammals adapted for speed versus endurance
Anthropology	Clarissa Dicke	University of Alaska Fairbanks	Population continuity or replacement in ancient Lachish? A dental affinity analysis in the Levant.
Anthropology	Heather Garvin	Johns Hopkins University School of Medicine	Environmental Effects on Human Cranial and Postcranial Sexual Dimorphism
Anthropology	Briana Horwath	University of Alaska Fairbanks	Dental Microwear and Diet: Analysis of the Neolithic-Early Bronze Age Burial site of Bolores, Torres Vedras, Portugal and the Late to Middle Neolithic Burial site of Feteira II, Portugal
Anthropology	Laura Johnson	Duke University	The biomechanics of vertical clinging in primates
Anthropology	John Millhauser	Northwestern University	Salt of the Earth: Craft and community at San Bartolome Salinas, a Postclassic and early Colonial salt-making village in Mexico
Anthropology	Nicole Musselwhite	University of Southern Mississippi	Burial Chronological Sequencing at Tipu, Belize Based on Fluoride Testing
Anthropology	Alim Ramji	University of Oklahoma	Disease Perception: How Cultural Understandings Through Art May Affect Treatment, A Pilot Project In Three Continents.
Anthropology	Nicoletta Righini	University of Illinois at Urbana-Champaign	Foraging decisions, patch choice, and nutrient regulation in Mexican black howler monkeys
Anthropology	Mark Robinson	Louisiana State University-Baton Rouge	Wood Selection Strategies of the Ancient Maya, Paynes Creek National Park, Southern Belize
Anthropology	Travis Steffens	University of Toronto	Habitat Fragmentation and Habitat Loss Effects on Lemur Species Occurrence in Multiple Landscapes
Anthropology	Amanda VanSteelandt	Arizona State University	The construction of human disease ecologies through cultural transmission: A Nivacle example
Behavioral Ecology	Becky Atwood	Boston University	Neuronal Proliferation and Cognitive Performance of Amphiprion percula Exposed to Odor Enriched vs. Nonenriched Environments.
Behavioral Ecology	Emerson Bowers	Illinois State University	Allocating offspring sex: robust daughters and sensitive sons?

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Behavioral Ecology	Raymond Danner	Virginia Polytechnic Institute and State University	Cross-seasonal sexual selection in a migratory bird
Behavioral Ecology	Melissa Grunst	University of California-Riverside	Adaptive plasticity in reproductive behavior and mediation by the adrenocortical stress response
Behavioral Ecology	Edward Hanlon	University of Mississippi	Maternal Investment in Clutch Size as a Function of Male Mate Quality in Ocellated Turkeys (<i>Meleagris ocellata</i>)
Behavioral Ecology	Ariadna Herrera	Universidad de Guanajuato	THE DILEMMA BETWEEN MATING AND LIFE SPAN: THE JUVENILE HORMONE EFFECT UPON PATHOGENES SUSCEPTIBILITY AND OXIDATIVE DAMAGE
Behavioral Ecology	Candice Klingerman	Lehigh University	Energy availability affects sexual motivation and sexual reward through the actions of ghrelin and leptin.
Behavioral Ecology	Irene Liu	Duke University	Does genetic diversity predict extra-pair mating in populations of a songbird?
Behavioral Ecology	Laura Louon	Ithaca College	Movement behavior in the eastern chipmunk (<i>Tamias striatus</i>)
Behavioral Ecology	Patrick Lyons	State University of New York at Stony Brook	Why settle for less? Constraints on adoption of an optimal predator avoidance strategy
Behavioral Ecology	James Muraco	Texas State University-San Marcos	Maintenance of a unisexual-bisexual mating complex: importance of behavioral syndromes and hormones
Behavioral Ecology	Michael Painter	Virginia Polytechnic Institute and State University	Characterizing the light-dependent magnetic compass in <i>Drosophila melanogaster</i>
Behavioral Ecology	Jonathan Quinonez	University of Utah	Vertical Acceleration Capacity of <i>Mus Musculus</i> in Relation to Social Dominance Ability
Behavioral Ecology	Sandra Rehan	Brock University	Social behavior of Neotropical small carpenter bees
Behavioral Ecology	Ashley Rogers	University of California-Santa Cruz	Differential allocation of reproductive effort due to mate selection: a test of parental care and mate quality in the convict cichlid, <i>Amatitlania nigrofasciata</i> .
Behavioral Ecology	Molly Womack	Colorado State University	Not all Signals are Received Equally: Finding the Mechanism Behind Signal Evolution in the Painted Forest Toadlet
Cell Biology/Biochemistry	Ameair Abu Irqeba	Saint Louis University	The Role of Rabac1 in Photoreceptor Development
Cell Biology/Biochemistry	Ahmet Arslan	University of Illinois at Chicago	Identification of small molecule inhibitors of splicing factors: A novel therapeutic tool for ovarian cancer

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Cell Biology/Biochemistry	Hope Ball	University of Akron	Leptin and OBR-GRP expression patterns in two Arctic adapted cetaceans: the bowhead (<i>Balaena mysticetus</i>) and beluga whale (<i>Delphinapterus leucas</i>).
Cell Biology/Biochemistry	Austen Barnett	Southern Illinois University-Carbondale	Exploring the Loss of the Hox Gene abdominal-A in the Mite <i>Archegozetes longisetosus</i> in the Context of Limb Development
Cell Biology/Biochemistry	Robert Brochin	Georgetown University	The Effect of Concentrated Muscle Conditioned Media on Human Breast Carcinoma Cells with Mutated p53
Cell Biology/Biochemistry	Sean Burn	American University	Molecular Basis of Apoptosis in the Zebrafish (<i>Danio rerio</i>) Model of Diabetic Retinopathy
Cell Biology/Biochemistry	Chester Chia	Rutgers, The State University of New Jersey	ARC (arg3.1) Protein Expression in Dorsal and Ventral Hippocampus Depends Upon Activation of NMDA Receptors
Cell Biology/Biochemistry	Young Cho	Texas A&M University-College Station	Effect of n-3 polyunsaturated fatty acid and/or butyrate on DNA methylation of apoptosis related genes
Cell Biology/Biochemistry	Robyn DeBenedet	University of Hawaii at Hilo	Relationship between Changes in Ocean pH and the Calcareous Brown Algae, Padina.
Cell Biology/Biochemistry	Atbin Doroodchi	University of Alabama at Birmingham	The effects of <i>C.elegans</i> BTBD9 homolog, C05C8.6, deletion in worm's behavior and synaptic transmission
Cell Biology/Biochemistry	Brij Gupta	University of South Dakota	Antibody guided therapy of colon cancer using nano-siRNA technology
Cell Biology/Biochemistry	Chad Hunter	East Carolina University	Characterization of DNA Polymerase Delta (δ) using a combined in vivo and in vitro strategy
Cell Biology/Biochemistry	Nora Ibrahim	University of Illinois at Urbana-Champaign	The Catalysis of DNA Hydrolysis by Sequence-Tolerant Deoxyribozymes
Cell Biology/Biochemistry	Wenzhe Lu	University of Texas Medical Branch	Designing novel proteins with enhanced mechanical strengths
Cell Biology/Biochemistry	Joshua Lukas	Bethel College	Tamoxifen- and Estradiol- induced alterations in the mRNA and miRNA expression in human hepatocytes
Cell Biology/Biochemistry	Emily Moorefield	Wake Forest University	The effect of hepatocyte nuclear factor 4 alpha haploinsufficiency on the development and function of pancreatic beta-cells
Cell Biology/Biochemistry	Jamie Nickerson	Bates College	Genetics of susceptibility to bone loss related to periodontal disease
Cell Biology/Biochemistry	Laurin Pacheco	University of Miami	Vascular Differentiation Potential of Progenitor Cells

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Cell Biology/Biochemistry	tony pierson	George Mason University	Effects of Exposure of Cigarette Smoke on the Expression Levels of Antimicrobial Peptides in Human Lung Epithelial Cells
Cell Biology/Biochemistry	Jonathon Reeck	Boise State University	Collagen Type XI(a1) Regulates Osteoblast Differentiation and Mineralization in the Developing Zebrafish Craniofacial Skeleton
Cell Biology/Biochemistry	Adam Reichard	Wright State University	M1 and M2 macrophage response after HSV-1 infection: an in vivo model for HSV-1 corneal infections
Cell Biology/Biochemistry	Anne Runkel	Middlebury College	Transcriptional Analysis of Akap9: a study of the genetic basis of infertility
Cell Biology/Biochemistry	Craig Schenck	Ohio University	Proteomics approach to studying signal transduction in a plants' response to gravity
Cell Biology/Biochemistry	Jasmine Shinko	Gannon University	Characterization of Antibiotic Resistant Aeromonads from Lake Erie and Evaluation of their Pathogenicity
Cell Biology/Biochemistry	Stephanie Smith	University of Idaho	Microbial Activities Effecting Selenium Mobility in Seleniferous Environments
Cell Biology/Biochemistry	Amy Thomson	Widener University	Effect of Atrazine Exposure on Gene Regulation in Adult Rana pipiens
Cell Biology/Biochemistry	Tomislav Ticak	Miami University Ohio	Analysis of Punitive Trimethylamine Operon in Desulfitobacterium hafniense (DCB-2 / Y51)
Cell Biology/Biochemistry	Tenira Townsend	Oakland University	Role of PARP-1 in UVB-treated lens epithelial cells
Cell Biology/Biochemistry	Christopher Walker	Ohio State University	In Vivo Characterization of Two Non-Toxic and Non-Immunosuppressive FTY720-derived Compounds for Use as Anti-Leukemic Agents
Cell Biology/Biochemistry	Lingyu Wang	University of Miami	The role of Neurabin, a neural tissue-specific protein, in egg polarity establishment and early embryo development
Cell Biology/Biochemistry	Cassandra Wasson	Gannon University	Effects of Photobiomodulation on Pro-Inflammatory and Fibrogenic Gene Expression of Chlamydia trachomatis Infected Fibroblast Cells
Chemistry	Keerthi Chandra	Eastern Illinois University	Perovskite Thin Films : Synthesis, characterization and Surface Modification for Electrochemical Oxygen Reduction reaction catalysis.
Chemistry	Beatrice Irungu	University of Nairobi	Bio-prospecting for anti-malarial compounds from some Kenyan medicinal plants

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Chemistry	Harrison Kibombo	University of South Dakota	Characterization of hydrothermally synthesized platinum supported TiO ₂ -SiO ₂ catalysts for the photocatalytic degradation of toxic phenolic compounds
Chemistry	Julie Wilkerson	University of Texas at Austin	Electroluminescent Materials Based on Lanthanide-Containing Conducting Metallopolymers
Computer Science/Mathematics	Ryo Akasaka	Stanford University	Providing User Controls for Self-Regulating Behavior Changes Based on Intelligent UI Design
Computer Science/Mathematics	Aaron Costley	Tarleton State University	ROBOT NAVIGATION THROUGH PARALLEL PROCESSING IN A COMPUTER CLUSTER
Computer Science/Mathematics	Samantha Finkelstein	University of North Carolina at Charlotte	Astrojumper: Motivating Children with Autism to Exercise using a Virtual Reality Exercise Game
Conservation Biology	Meredith Atwood	State University of New York College of Environmental Science and Forestry	Bottom-Up Influences on Vernal Pool Food Webs: Implications for Amphibians and Restoration Efforts
Conservation Biology	Kirsten Borger	East Tennessee State University	The Effects Of Environmental Change On <i>Plethodon welleri</i> In The Southern Appalachian Mountain Range.
Conservation Biology	Gena Esposito	University of Texas at El Paso	Genetic diversity of two invertebrate species with contrasting dispersal abilities in isolated water bodies of the Chihuahuan Desert
Conservation Biology	Kathryn Fiorella	University of California-Berkeley	Linking Natural Resources and Disease: Land Use Change and HIV/AIDS
Conservation Biology	Erika Fox	California State University-Long Beach	Quantifying Trophic Support for California Halibut in a Restored Coastal Wetland as a Metric for Restoration Success
Conservation Biology	Adriana Gata	Cornell University	<i>Batrachochytrium dendrobatidis</i> Emergence in Central America: Testing the Spreading Pathogen Hypothesis
Conservation Biology	Aaron Haynes	Sam Houston State University	Potential Role of Piscivorous Snakes on Regulation Invasive Aquatic Prey Populations
Conservation Biology	Desiree Moffitt	Appalachian State University	The Impact of Amphibian Chytrid Fungus on Plethodontid Populations in the Southern Appalachians
Conservation Biology	Karen Uy	University of Hawaii at Hilo	Comparison of temperature tolerance between two sympatric populations of Hawaiian picture-winged <i>Drosophila</i> : <i>D. silvestris</i> and <i>D. sproati</i> .
Conservation Biology	Benjamin Wainwright	University of Hawaii at Manoa	Indonesian Gene Flow and Implications for Potential Marine Conservation Strategies.

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Conservation Biology	Linet Watson	SUNY College of Environmental Science and Forestry	Trophic Ecology and Conservation of the Giant Arapaima in South-western Guyana
Conservation Biology	Pamela Wong	University of Toronto	Reliability and accuracy of Inuit estimates of polar bear sex, age, size and age of track from in situ track observations
Ecology	Carla Atkinson	University of Oklahoma	Trophic and nutrient cycling roles provided by a multi-species assemblage of native freshwater mussels
Ecology	Asya Ayrapetov	Purdue University-West Lafayette	The effects of climatic variation on the reproductive success of a spring woodland herb <i>Claytonia virginica</i> (Portulacaceae)
Ecology	Sarah Blackstock	DePaul University	Assortative mating by size in intertidal crustaceans: effects of a spatially heterogeneous environment
Ecology	Catherine Bravo	Florida International University	Examining above and below ground carbon allocation along an elevation gradient in the Southeastern Peruvian Andes
Ecology	Marybeth Brey	North Carolina State University	Can introduced species alter benthic-pelagic coupling in aquatic systems?
Ecology	Kim Briones	University of North Carolina at Greensboro	Effects of intercropping switchgrass and loblolly pine on the diet and trophic position of <i>Peromyscus leucopus</i> .
Ecology	Edward Burress	Appalachian State University	Resource partitioning, nutrient cycling and trophic structure of a species-rich aquatic ecosystem
Ecology	Sandra Camilleri	University of North Carolina at Wilmington	Investigating the stomach oil provisioning strategy in Procellariiform seabirds using Leach's storm-petrels (<i>Oceanodroma leucorhoa</i>) as a model species.
Ecology	Gretel Clarke	University of Vermont	Assessing the individual and interactive effects of ecological players on sex morphs of the gynodioecious <i>Polemonium foliosissimum</i>
Ecology	Kavitha Dasu	Purdue University	Evaluating the Biotransformation Potential of 8:2 and 6:2 Fluorotelomer-based Urethanes in Soil
Ecology	Nicole Davros	University of Illinois at Urbana-Champaign	An integrative approach to testing density effects in a migratory songbird, the Prothonotary Warbler (<i>Protonotaria citrea</i>)
Ecology	Christopher Dibble	Rice University	The Role of Genetic Diversity in Mediating Resistance to a Novel Pathogen

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Ecology	Paul Durst	Duke University	The Biogeography and Community Structure of Parasites of Channel Island Deer Mice (<i>Peromyscus maniculatus</i>) on the California Channel Islands
Ecology	Robert Ellis	Florida State University	Red grouper: prairie dogs of the seagrass? Assessing the ecological impact of benthic habitat modification by red grouper
Ecology	Lisa Fazzino	University of Puget Sound	Bacterial Inhabitants of the Nitrogen Fixing Invasive Scotch Broom (<i>Cytisus scoparius</i>) in South Puget Sound
Ecology	Stephanie Figary	SUNY College of Environmental Science and Forestry	Exploiting a natural experiment: Investigating the impact of an invasive zooplankton, <i>Cercopagis pengoi</i> , on the food webs of the New York Finger Lakes
Ecology	Shanna Hanes	Auburn University	Hyperthermic stress-induced autophagy in the tropical anemone, <i>Aiptasia pallida</i> .
Ecology	Jessica Howells	Appalachian State University	Induction in <i>Solidago altissima</i> as a possible mechanism for genotypic effects on aphid herbivores
Ecology	Jennifer Johnson	Florida Institute of Technology	The Reproductive Biology of <i>Myrophis punctatus</i> In The Indian River Lagoon Near The Sebastian Inlet
Ecology	Shafkatul Khan	University of Georgia	Tropical tree seedlings's response to change in climate
Ecology	Eun Sun Kim	University of Illinois at Chicago	Investigating the role of genetic diversity and pollination biology as potential causes for reproductive failure in <i>Asclepias lanuginosa</i>
Ecology	Megan Kirchgessner	State University of New York College of Environmental Science and Forestry	Bovine Viral Diarrhea Virus: A Risk Assessment of Interspecies Disease Transmission
Ecology	Travis Kocurek	Sam Houston State University	Critical Current Speed in Two Livebearing Fishes (<i>Gambusia nobilis</i> and <i>G. geiseri</i>) at Balmorhea State Park, Texas.
Ecology	Jennifer Koop	University of Utah	Darwin's finches fight back: costs of immunity
Ecology	Chia-Hua Lin	Ohio State University	Does clonal structure affect pollinator-mediated mating pattern in <i>Dicentra canadensis</i> (Fumariaceae)?
Ecology	Ebony Murrell	Illinois State University	The roles of predation and predation resistance tradeoffs: mechanisms of ecological succession in an aquatic invertebrate community.

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Ecology	Itai Opatovsky	Ben-Gurion University of the Negev	Pest predation by agrobiont and immigrant spiders in wheat fields
Ecology	Dustin Partridge	Fordham University	Green Roofs as Migrating Bird and Breeding Bird Habitat
Ecology	Colin Phifer	University of Hawaii at Hilo	Reproductive Success of Two Dioecious Plants in a Fragmented Landscape
Ecology	Allyson Plantz	Southwestern University	Munching on 'egg' shells: Mechanisms behind egg predation by a model predator, the redeared slider (<i>Trachemys scripta elegans</i>)
Ecology	RaeAnn Powers	University of Nebraska at Lincoln	Understanding Diversity in Managed Grassland Ecosystems
Ecology	Laura Radville	University of Rhode Island	Invasive herbivore feeding induces a hypersensitive response in hemlock trees
Ecology	Pamela Reynolds	University of North Carolina at Chapel Hill	Interactive effects of resources and consumers on marine vegetation: participation in an international experimental network
Ecology	Kartick Shirur	University of Mississippi	Do Symbiodinium algae in octocorals use the host as an umbrella?
Ecology	Ann Showalter	Miami University Ohio	The interactive role of lake productivity and sediment-feeding fish on growth and overwinter survivorship of bluegill sunfish
Ecology	Nyssa Silbiger	University of Hawaii at Manoa	Why the "little guys" matter: Organisms that shape coral reefs and their response to ocean acidification.
Ecology	Ben Smit	University of Pretoria	The role of water availability in thermoregulation at high temperatures
Ecology	Michael Studivan	St. Mary's College of Maryland	Effects of Oil and the Oil Dispersant Corexit® 9527 on Bleaching of the Alcyonacean Soft Coral <i>Xenia elongata</i>
Ecology	Corianne Tatariw	University of Alabama at Tuscaloosa	Exploring Community Dynamics of Nitrate Removers in the Cahaba River, Alabama
Ecology	Courtney Thomason	Texas Tech University	Hosts as a Partitioned Resource: a Study of Parasite Co-infection
Ecology	Amy Ulappa	Boise State University	Nutritional and chemical factors shaping diet selection by a sagebrush dietary specialist: the pygmy rabbit
Ecology	Benjamin Van Allen	Rice University	Previous habitat quality of colonizers drives community dynamics in new habitats
Ecology	Kimberly VanderWaal	University of California-Davis	Identifying routes of pathogen transmission among wild and domestic ungulates in central Kenya

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Ecology	Rachel Walsh	University of California-Berkeley	Impact of Biotic Interactions & Environmental Variables on Range Shifts in Chipmunks in Yosemite National Park
Ecology	Whitney Webb	Davidson College	The Effect of Sward Height and Grazing Frequency on the Diversity and Abundance of Selected Insect Taxa in Sustainable Grazing Systems
Ecology	Rachel Welt	Fordham University	Can rapid evolution in response to a climatic event alter levels of gene flow in an annual plant?
Ecology	Rachel Wigginton	California State University-Long Beach	Impacts of <i>Lepidium latifolium</i> on habitat quality for song sparrows in a northern California brackish marsh
Engineering	Olufunmilayo Adebayo	Worcester Polytechnic Institute	Analysis of material properties and failure behavior of cell-derived tissue rings
Engineering	Peter Attayek	University of North Carolina at Chapel Hill	Rutherford Backscattering Analysis of Polymer Membranes Used for Desalination and Reuse
Engineering	Anna Blakney	University of Colorado at Boulder	Characterization of Anti-Inflammatory Effects of Mesenchymal Stem Cells on Activated Macrophages
Engineering	Jianfeng Chen	State University of New York at Stony Brook	Development of High-Brightness, Low-Divergence, Narrow-Line and Spectra-Stabilized 1.95 μm Laser Diode Source with Volume Bragg-Grating Feedback
Engineering	Joseph Geissler	New Jersey Institute of Technology	Tissue-level Mechanical Properties of Alendronate Treated Canine Cortical Bone
Engineering	Sonia Merritt	Case Western Reserve University	Pressure-Mediated Gene Therapy for Ocular Diseases
Engineering	Arpan Satsangi	University of Texas at San Antonio	Development of resorbable, multi-layered polymer membranes for multi-modal drug release at bone defect sites.
Engineering	Arpita Sinha	Portland State University	Evolving Neuromorphic non-linear time dependent networks
Engineering	Yu Zhang	State University of New York at Stony Brook	Investigation of high quality B12As ₂ heteroepitaxial films on c-plane off-axis 4H-SiC substrates
Hydrology/Geomorphology	Denise Burchsted	University of Connecticut	Beaver Meadow Hydrology
Hydrology/Geomorphology	Ryan Pollyea	University of Idaho	Experimental evaluation of least-squares methods for quantifying surface roughness from LIDAR-derived datasets
Paleontology/Sedimentation	Ryan Carney	Brown University	High-resolution 3D digital scanning of the Thermopolis Archaeopteryx fossil

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Paleontology/Sedimentation	Danielle Grogan	Brown University	Rapid climate change: the role of large lakes as Eocene greenhouse gas sources and sinks
Paleontology/Sedimentation	Alex Kasprak	Brown University	A Paleobarometric Record of End-Triassic Atmospheric pCO ₂ from the Algarve Basin (Portugal)
Paleontology/Sedimentation	Andrea Rocchio	Hobart and William Smith Colleges	Assessment of historic (~1900-2010 C.E.) nutrient sources and paleoproductivity in Honeoye Lake, NY
Paleontology/Sedimentation	David Weinstein	University of Miami	Deep bioerosion: Variations in biological alteration in different mesophotic reef zones and the impacts on coral framework sustainability
Petrology/Geochemistry	Kenneth Brown	Miami University Ohio	GEOCHRONOLOGY AND GEOCHEMISTRY OF A LATE CRETACEOUS GRANITOID SUITE, SANTA ROSA RANGE, NEVADA: LINKING ARC MAGMATISM IN NORTHWESTERN NEVADA TO THE SIERRA NEVADA BATHOLITH.
Petrology/Geochemistry	Ryan Frazer	University of North Carolina at Chapel Hill	High-precision geochronology of the Mount Givens pluton, central Sierra Nevada, California
Petrology/Geochemistry	Joshua Rosera	University of North Carolina at Chapel Hill	High resolution geo- and thermochronology of the Questa Porphyry Mo deposit and associated intrusions, Northern New Mexico
Physics/Astronomy	Samaneh Ahmadinejad	Illinois Institute of Technology	The relationship between the earth's natural magnetic waves and it's effect on gravity, the potential of generating electricity from the earth's natural magnetic waves
Physics/Astronomy	Roy Anunciado	Wesleyan University	A Study Towards Na ²⁺ 'Shallow Well' Potential
Physics/Astronomy	Michael Berry	Rutgers, The State University of New Jersey	Evaluating the Gas Surrounding Distant Galaxies
Physics/Astronomy	Michael Butler	University of Florida	Studying the initial conditions of massive star formation with the Herschel Space Telescope
Physics/Astronomy	Christopher Crockett	Lowell Observatory	Searching for the youngest planets
Physics/Astronomy	Daniel Johnson	University of North Alabama	A Search For Variable Stars in Two Old Open Clusters
Physics/Astronomy	John Kerr	Ohio University	Variability Study of Three Newly Discovered VHE Gamma-ray Blazars
Physics/Astronomy	Min-Young Lee	University of Wisconsin-Madison	OH Observations of the Perseus Molecular Cloud: Unveiling the Processes of Molecule Formation

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Physics/Astronomy	Vikram Londhe	University of Pune	To Find and study New Habitable Planet(exoplanet)using Ocular Telescope and Doppler Spectroscopy.
Physics/Astronomy	Somsubhra Maity	North Carolina State University	Photothermal response of nanoparticles inside polymer nanocomposites and nanothermometry using fluorescence technique
Physics/Astronomy	James Monahan	Drexel University	Cherenkov Signal Simulator for Water Detectors
Physics/Astronomy	Justin Moore	University of North Carolina at Chapel Hill	Consistent Weather Monitoring for PROMPT at CTIO
Physics/Astronomy	Daniel Nuzzo-Mueller	Worcester Polytechnic Institute	Optimization of substrate surface topography for organic thin film solar cells
Physics/Astronomy	Brett Ragozzine	Ohio University	Modeling the Dark Matter of Galaxy Clusters Using the Tensor-Vector-Scalar Theory of Alternate Gravity
Physics/Astronomy	Vivian U	University of Hawaii at Manoa	Kinematics and Energetics in Luminous Infrared Galaxies
Physics/Astronomy	Jean Walker Soler	Rutgers, The State University of New Jersey	How did the Milky Way Form? A Semi-Analytical Study of Galaxy Evolution
Physics/Astronomy	Isak Wold	University of Wisconsin-Madison	A Search for Ultraluminous Infrared Galaxies at Early Cosmic Times
Physiology/Functional Morphology	Gerardo Balbuena	Universidad Nacional Autonoma de Mexico	Mecanismos implicados en la regulación de la función testicular del Urodelo Ambystoma rivulare Mechanisms involved in regulating testicular function of Urodela Ambystoma rivulare
Physiology/Functional Morphology	Timothy Balmer	Georgia State University	Restriction of plasticity in adulthood by visual activity dependent regulation of inhibition
Physiology/Functional Morphology	Jennifer Breaux	Illinois State University	Effects of larval population density on adult immune response to parasite challenge in Aedes aegypti
Physiology/Functional Morphology	Michael Butler	Arizona State University	Effect of developmental versus adult diet on adult sexual coloration and immune function in mallard ducks
Physiology/Functional Morphology	Viviane Callier	Duke University	Determinants of oxygen demand in the tobacco hornworm, Manduca sexta
Physiology/Functional Morphology	Matthew Close	Lehigh University	Confocal imaging of highly-stretched snake lower jaw muscles.
Physiology/Functional Morphology	Nina Donner	University of Colorado at Boulder	Effects of chronic corticosterone on 5-HT1A and 5-HT1B serotonin receptor expression in the dorsal raphe nucleus(DRN)

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Physiology/Functional Morphology	Diego Fernandez	Consejo Nacional de Investigaciones Cientificas y Técnicas	Early alterations of the visual pathway in experimental diabetic retinopathy
Physiology/Functional Morphology	Miranda Gray	Kansas State University	Bringing genomics outdoors: Next-generation sequencing project of dominant prairiegrass phenotypic variants occurring at opposing extremes of a precipitation gradient
Physiology/Functional Morphology	Maria Laura Habegger	University of South Florida	Feeding morphology and biomechanics in billfishes (Families Xiphiidae and Istiophoridae)
Physiology/Functional Morphology	Caroline Harper	Brown University	The Morphology of the Papillae and Lingual Vessels in the Tongue of a Nectar-Feeding Bat, <i>Glossophaga soricina</i>
Physiology/Functional Morphology	Ashley Huber	Georgetown University	Does Resveratrol Induce Fast-to-Slow Phenotypic Shifts and Improve Oxidative Enzyme Concentrations in the Skeletal Muscle of Primates?
Physiology/Functional Morphology	Emily Kane	Clemson University	Functional tradeoffs in locomotor specialists: the effects of habitat on morphology, performance, and the integration of locomotion and feeding in Cottids
Physiology/Functional Morphology	Anton Khalilieh	Ben-Gurion University of the Negev, Albert Katz International School for Desert Studies	The physiological responses to food deprivation in a passerine bird (<i>Passer domesticus</i>) ostensibly not adapted to prolonged fasting
Physiology/Functional Morphology	Alexandra Koba	San Francisco State University	Art and Science of Anatomy: Hemisection of the Head and Neck
Physiology/Functional Morphology	Fredrick Larabee	University of Illinois at Urbana-Champaign	Structural Properties of a High-Performance Biological Material: Cuticle of the Trap-Jaw Mandible
Physiology/Functional Morphology	Carlos Morantes	Bellevue Community College	Evaluating volume-surface ratio in bee brains
Physiology/Functional Morphology	Cameron Naficy	University of Colorado at Boulder	Evaluating the physiological basis for climate-induced forest dieback in <i>Nothofagus dombeyi</i> and <i>Austrocedrus chilensis</i> forests, Northern Patagonia, Argentina
Physiology/Functional Morphology	Stephanie Wolf	James Madison University	Locomotor ontogeny and postcranial growth in <i>Propithecus verreauxi</i> and <i>Lemur catta</i> .
Physiology/Functional Morphology	Qing Yan	University of Miami	The Role of an Expanded Glutamatergic Interneuron Population in the Motor Recovery of Zebrafish Glycine Transporter 1 Mutant
Physiology/Functional Morphology	Mingna Zhuang	University of California-Berkeley	Gliding Performance in the Anolis Genus

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Psychology	Kiersten Berggren	University of Wisconsin-Milwaukee	Exercise and the Expression of Hypoxia-Inducible Factor - 1 alpha in the Hippocampus of the Adult Rat
Psychology	William Flerlage	St. Mary's College of Maryland	Incubation of cocaine-craving in the NVHL model of schizophrenia: Role of DeltaFosB
Psychology	Christopher Li	Duke University	Exploring the Relationship Between Mindfulness, Impulsivity, Neural Response to Reward and Dopamine
Psychology	Katrina Rodzon	Utah State University	Training Program for Self-Controlled Behavior in Children.
Psychology	Gretchen Sholty	University of California-Los Angeles	Psychobiological Determinants of Stress Reactivity in Schizophrenia
Psychology	Leanne Shulman	Middlebury College	The Effects of Sexual Experience on Memory and Perseverance in Adult Male Rats
Psychology	Fabian Soto	University of Iowa	General principles of visual object recognition
Psychology	Lee Villatoro	University of Wisconsin-Milwaukee	Immediate versus delayed consequences of cerebellar damage on spatial processing in the Morris Water Maze
Psychology	Da-Jiang Zheng	Oklahoma State University	Social Recognition in Prairie Voles (<i>Microtus Ochrogaster</i>): Discriminating lovers from strangers
Systematics/Evolutionary Biology	Michael Andersen	University of Kansas	Using a multi-locus, coalescent framework to study patterns of genetic variation across an insular avian hybrid zone
Systematics/Evolutionary Biology	Robert Baker	University of Colorado at Boulder	Molecular Characterization of the Microevolution and Development of <i>Mimulus guttatus</i> Shoot Branching
Systematics/Evolutionary Biology	Emily Boward	Hood College	Characterizing Microsatellite DNA Diversity of Rusty Crayfish in Maryland
Systematics/Evolutionary Biology	Rebecca Chong	Colorado State University	Disentangling the mechanisms driving genome expansion
Systematics/Evolutionary Biology	Aaron Comeault	University of Colorado at Boulder	Local adaptation and genomic patterns of divergence in <i>Timema cristinae</i> walking-stick insects.
Systematics/Evolutionary Biology	Amanda Glazier	University of Massachusetts Boston	Investigation of the Depth Differentiation Hypothesis in Three Genera of Deep Sea Bivalves
Systematics/Evolutionary Biology	Kiley Hicks	Portland State University	Causes and Consequences of Mitochondrial Electron Transport Chain Dysfunction
Systematics/Evolutionary Biology	Melissa Johnson	University of Hawaii at Hilo	The importance of geographic isolation in the evolution of reproductive barriers between species of Hawaiian <i>Cyrtandra</i> (Gesneriaceae)

Grants from the October 15, 2010 Application Deadline
Alphabetical by Research Field

Research Field	Name	Institution	Title
Systematics/Evolutionary Biology	Alicia Kennedy	Villanova University	Stem Lepidosaurians from Driefontein: An Apomorphy Based Approach
Systematics/Evolutionary Biology	Skye Klingbeil	Portland State University	Inheritance of a Heteroplasmic Mitochondrial DNA Mutation in <i>Caenorhabditis briggsae</i>
Systematics/Evolutionary Biology	Andrew Kraemer	Iowa State University	Identifying the Proximate (Molecular) and Ultimate (Evolutionary) Mechanisms Driving a Color Polymorphism in a Plethodon Salamander
Systematics/Evolutionary Biology	James Lewis	University of California-Irvine	Is there a butterfly mimicry toolkit? Co-option vs. parallel evolution in wing pattern development
Systematics/Evolutionary Biology	Rafael Maia	University of Akron	Evolution and diversification of iridescent feather coloration in African Starlings
Systematics/Evolutionary Biology	Steven Micheletti	San Francisco State University	Evolution of Adaptive Crypsis in Lava Field Dwelling Side-Blotched Lizards (<i>Uta stansburiana</i>)
Systematics/Evolutionary Biology	Christopher Owen	University of Connecticut	A genomic perspective of the pattern and process of speciation among three sister cryptic species of Australian cicadas
Systematics/Evolutionary Biology	Adam Pritchard	State University of New York at Stony Brook	The Phylogeny, Radiation, and Morphological Change Rates of Basal Diapsid Reptiles
Systematics/Evolutionary Biology	Daniel Runcie	Duke University	Heat shock responses and the evolution of robustness to thermal stress in development
Systematics/Evolutionary Biology	Arun Sethuraman	Iowa State University	Understanding genome-level effects of gene-flow in experimental evolution lines of temperature sensitive <i>Caenorhabditis elegans</i> mutants.
Systematics/Evolutionary Biology	Kimberly Tenggardjaja	University of California-Santa Cruz	A Genetic Comparison of Endemic and Non-Endemic Damselfishes throughout the Hawaiian Archipelago
Systematics/Evolutionary Biology	Jeffery Tharp	Indiana State University	The effect of environmental variance on thermal acclimation capacity
Systematics/Evolutionary Biology	Andrew Verardo	Georgetown University	EVOLUTION OF PANCREATIC ENDO- AND EXOCRINE CELLS IN DEUTEROSTOMES
Tectonics/Geophysics	Nathan Gwyn	East Carolina University	Emplacement and growth of shallow, complex intrusions, Henry Mountains, Utah
Tectonics/Geophysics	Dean Hazle	Hope College	Structural mapping and tectonic history in the the Stensjöstrand supracrustal belt, Halland Sweden
Tectonics/Geophysics	Jackie Langille	University of Tennessee-Knoxville	Extension in the convergent Himalaya: Quantitative constraints on extension accommodated by the Leo Pargil shear zone, NW India

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Tectonics/Geophysics	Zachery Lifton	Georgia Institute of Technology	Refining geodetic rates of deformation in the central Walker Lane with a new densified GPS network
Tectonics/Geophysics	D. Sarah Stamps	Purdue University	Kinematic constraints on the Lwandle-Somalian plate boundary across Madagascar from GPS geodesy