

Grants-in-Aid of Research Awards
October 15, 2010 Grant Cycle

Alphabetical by Recipient's Name

Ameair Abu Irqeba	Cell Biology/Biochemistry	Saint Louis University	The Role of Rabac1 in Photoreceptor Development
Olufunmilayo O. Adebayo	Engineering	Worcester Polytechnic Institute	Analysis of material properties and failure behavior of cell-derived tissue rings
Samaneh Ahmadinejad	Physics/Astronomy	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
Ryo L. Akasaka	Computer Science/Mathematics	Stanford University	Providing User Controls for Self-Regulating Behavior Changes Based on Intelligent UI Design
Michael J. Andersen	Systematics/Evolutionary Biology	University of Kansas	Using a multi-locus, coalescent framework to study patterns of genetic variation across an insular avian hybrid zone
Roy Anunciado	Physics/Astronomy	Wesleyan University, Connecticut	A Study Towards Na ²⁺ æShallow WellÆ Potential
Ahmet D. Arslan	Cell Biology/Biochemistry	University of Illinois at Chicago	Identification of small molecule inhibitors of splicing factors: A novel therapeutic tool for ovarian cancer
Carla L. Atkinson	Ecology	University of Oklahoma	Trophic and nutrient cycling roles provided by a multi-species assemblage of native freshwater mussels
Peter J. Attayek	Engineering	University of North Carolina at Chapel Hill	Rutherford Backscattering Analysis of Polymer Membranes Used for Desalination and Reuse
Meredith A. Atwood	Conservation Biology	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
Becky E. Atwood	Behavioral Ecology	Boston University	Neuronal Proliferation and Cognitive Performance of Amphiprion percula Exposed to Odor Enriched vs. Nonenriched Environments.

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Asya Ayrapetov	Ecology	Purdue University-West Lafayette	The effects of climatic variation on the reproductive success of a spring woodland herb <i>Claytonia virginica</i> (Portulacaceae)
Robert L. Baker	Systematics/Evolutionary Biology	University of Colorado at Boulder	Molecular Characterization of the Microevolution and Development of <i>Mimulus guttatus</i> Shoot Branching
Gerardo L. Balbuena	Physiology/Functional Morphology	Universidad Nacional Autonoma de Mexico	Mecanismos implicados en la regulaci3n de la funci3n testicular del Urodelo <i>Ambystoma rivulare</i> Mechanisms involved in regulating testicular function of Urodela <i>Ambystoma rivulare</i>
Hope C. Ball	Cell Biology/Biochemistry	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>).
Timothy S. Balmer	Physiology/Functional Morphology	Georgia State University	Restriction of plasticity in adulthood by visual activity dependent regulation of inhibition
Austen A. Barnett	Cell Biology/Biochemistry	Southern Illinois University-Carbondale	Exploring the Loss of the Hox Gene abdominal-A in the Mite <i>Archezogetes longisetosus</i> in the Context of Limb Development
Kiersten L. Berggren	Psychology	University of Wisconsin-Milwaukee	Exercise and the Expression of Hypoxia-Inducible Factor - 1 alpha in the Hippocampus of the Adult Rat
Mackenzie L. Bergstrom	Anthropology	University of Calgary	Dominance, nutrition and energetic condition in female white-faced capuchin monkeys
Michael J. Berry	Physics/Astronomy	Rutgers, The State University of New Jersey	Evaluating the Gas Surrounding Distant Galaxies

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Sarah Blackstock	Ecology	DePaul University	Assortative mating by size in intertidal crustaceans: effects of a spatially heterogeneous environment
Anna K. Blakney	Engineering	University of Colorado at Boulder	Characterization of Anti-Inflammatory Effects of Mesenchymal Stem Cells on Activated Macrophages
Kirsten E. Borger	Conservation Biology	East Tennessee State University	The Effects Of Environmental Change On <i>Plethodon welleri</i> In The Southern Appalachian Mountain Range.
Emily S. Boward	Systematics/Evolutionary Biology	Hood College	Characterizing Microsatellite DNA Diversity of Rusty Crayfish in Maryland
Emerson K. Bowers	Behavioral Ecology	Illinois State University	Allocating offspring sex: robust daughters and sensitive sons?
Catherine H. Bravo	Ecology	Florida International University	Examining above and below ground carbon allocation along an elevation gradient in the Southeastern Peruvian Andes
Jennifer A. Breaux	Physiology/Functional Morphology	Illinois State University	Effects of larval population density on adult immune response to parasite challenge in <i>Aedes aegypti</i>
Marybeth K. Brey	Ecology	North Carolina State University	Can introduced species alter benthic-pelagic coupling in aquatic systems?
Kim M. Briones	Ecology	University of North Carolina at Greensboro	Effects of intercropping switchgrass and loblolly pine on the diet and trophic position of <i>Peromyscus leucopus</i> .
Robert L. Brochin	Cell Biology/Biochemistry	Georgetown University	The Effect of Concentrated Muscle Conditioned Media on Human Breast Carcinoma Cells with Mutated p53

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Kenneth L. Brown	Petrology/Geochemistry	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.
Denise Burchsted	Hydrology/Geomorphology	University of Connecticut	Beaver Meadow Hydrology
Sean Burn	Cell Biology/Biochemistry	American University	Molecular Basis of Apoptosis in the Zebrafish (<i>Danio rerio</i>) Model of Diabetic Retinopathy
Edward D. Burress	Ecology	Appalachian State University	Resource partitioning, nutrient cycling and trophic structure of a species-rich aquatic ecosystem
Michael W. Butler	Physiology/Functional Morphology	Arizona State University	Effect of developmental versus adult diet on adult sexual coloration and immune function in mallard ducks
Michael Butler	Physics/Astronomy	University of Florida	Studying the initial conditions of massive star formation with the Herschel Space Telescope
Viviane Callier	Physiology/Functional Morphology	Duke University	Determinants of oxygen demand in the tobacco hornworm, <i>Manduca sexta</i>
Sandra Camilleri	Ecology	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.
Ryan M. Carney	Paleontology/Sedimentation	Brown University	High-resolution 3D digital scanning of the Thermopolis Archaeopteryx fossil
Keerthi Chandra	Chemistry	Eastern Illinois University	Perovskite Thin Films : Synthesis, characterization and Surface Modification for Electrochemical Oxygen Reduction reaction catalysis.

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Jianfeng Chen	Engineering	State University of New York at Stony Brook	Development of High-Brightness, Low-Divergence, Narrow-Line and Spectra-Stabilized 1.95 μ m Laser Diode Source with Volume Bragg-Grating Feedback
Chester Chia	Cell Biology/Biochemistry	Rutgers, The State University of New Jersey	ARC (arg3.1) Protein Expression in Dorsal and Ventral Hippocampus Depends Upon Activation of NMDA Receptors
Habiba Chirchir	Anthropology	George Washington University	Pilot study on trabecular bone architecture of humans and other mammals adapted for speed versus endurance
Young M. Cho	Cell Biology/Biochemistry	Texas A&M University-College Station	Effect of n-3 polyunsaturated fatty acid and/or butyrate on DNA methylation of apoptosis related genes
Rebecca A. Chong	Systematics/Evolutionary Biology	Colorado State University	Disentangling the mechanisms driving genome expansion
Gretel L. Clarke	Ecology	University of Vermont	Assessing the individual and interactive effects of ecological players on sex morphs of the gynodioecious <i>Polemonium foliosissimum</i>
Matthew T. Close	Physiology/Functional Morphology	Lehigh University	Confocal imaging of highly-stretched snake lower jaw muscles.
Aaron A. Comeault	Systematics/Evolutionary Biology	University of Colorado at Boulder	Local adaptation and genomic patterns of divergence in <i>Timema cristinae</i> walking-stick insects.
Aaron Costley	Computer Science/Mathematics	Tarleton State University	ROBOT NAVIGATION THROUGH PARALLEL PROCESSING IN A COMPUTER CLUSTER
Christopher J. Crockett	Physics/Astronomy	Lowell Observatory	Searching for the youngest planets
Raymond M. Danner	Behavioral Ecology	Virginia Polytechnic Institute and State University	Cross-seasonal sexual selection in a migratory bird

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Kavitha Dasu	Ecology	Purdue University-West Lafayette	Evaluating the Biotransformation Potential of 8:2 and 6:2 Fluorotelomer-based Urethanes in Soil
Nicole M. Davros	Ecology	University of Illinois at Urbana-Champaign	An integrative approach to testing density effects in a migratory songbird, the Prothonotary Warbler (<i>Protonotaria citrea</i>)
Robyn DeBenedet	Cell Biology/Biochemistry	University of Hawaii at Hilo	Relationship between Changes in Ocean pH and the Calcareous Brown Aglae, <i>Padina</i> .
Christopher J. Dibble	Ecology	Rice University	The Role of Genetic Diversity in Mediating Resistance to a Novel Pathogen
Clarissa R. Dicke	Anthropology	University of Alaska Fairbanks	Population continuity or replacement in ancient Lachish? A dental affinity analysis in the Levant.
Nina C. Donner	Physiology/Functional Morphology	University of Colorado at Boulder	Effects of chronic corticosterone on 5-HT1A and 5-HT1B serotonin receptor expression in the dorsal raphe nucleus(DRN)
Atbin Doroodchi	Cell Biology/Biochemistry	University of Alabama at Birmingham	The effects of <i>C.elegans</i> BTBD9 homolog, C05C8.6, deletion in worm's behavior and synaptic transmission
Paul A. Durst	Ecology	Duke University	The Biogeography and Community Structure of Parasites of Channel Island Deer Mice (<i>Peromyscus maniculatus</i>) on the California Channel Islands
Robert D. Ellis	Ecology	Florida State University	Red grouper: prairie dogs of the seagrass? Assessing the ecological impact of benthic habitat modification by red grouper
Gena R. Esposito	Conservation Biology	University of Texas at El Paso	Genetic diversity of two invertebrate species with contrasting dispersal abilities in isolated water bodies of the Chihuahuan Desert

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Lisa Fazzino	Ecology	University of Puget Sound	Bacterial Inhabitants of the Nitrogen Fixing Invasive Scotch Broom (<i>Cytisus scoparius</i>) in South Puget Sound
Diego C. Fernandez	Physiology/Functional Morphology	Consejo Nacional de Investigaciones Científicas y Técnicas	Early alterations of the visual pathway in experimental diabetic retinopathy
Stephanie E. Figary	Ecology	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
Samantha L. Finkelstein	Computer Science/Mathematics	University of North Carolina at Charlotte	Astrojumper: Motivating Children with Autism to Exercise using a Virtual Reality Exercise Game
Kathryn J. Fiorella	Conservation Biology	University of California-Berkeley	Linking Natural Resources and Disease: Land Use Change and HIV/AIDS
William J. Flerlage	Psychology	St. Mary's College of Maryland	Incubation of cocaine-craving in the NVHL model of schizophrenia: Role of DeltaFosB
Erika J. Fox	Conservation Biology	California State University-Long Beach	Quantifying Trophic Support for California Halibut in a Restored Coastal Wetland as a Metric for Restoration Success
Ryan E. Frazer	Petrology/Geochemistry	University of North Carolina at Chapel Hill	High-precision geochronology of the Mount Givens pluton, central Sierra Nevada, California
Heather M. Garvin	Anthropology	Johns Hopkins University School of Medicine	Environmental Effects on Human Cranial and Postcranial Sexual Dimorphism
Adriana V. Gata	Conservation Biology	Cornell University	<i>Batrachochytrium dendrobatidis</i> Emergence in Central America: Testing the Spreading Pathogen Hypothesis

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Joseph R. Geissler	Engineering	New Jersey Institute of Technology	Tissue-level Mechanical Properties of Alendronate Treated Canine Cortical Bone
Amanda Glazier	Systematics/Evolutionary Biology	University of Massachusetts Boston	Investigation of the Depth Differentiation Hypothesis in Three Genera of Deep Sea Bivalves
Miranda M. Gray	Physiology/Functional Morphology	Kansas State University	Bringing genomics outdoors: Next-generation sequencing project of dominant prairiegrass phenotypic variants occurring at opposing extremes of a precipitation gradient
Danielle S. Grogan	Paleontology/Sedimentation	Brown University	Rapid climate change: the role of large lakes as Eocene greenhouse gas sources and sinks
Melissa L. Grunst	Behavioral Ecology	University of California-Riverside	Adaptive plasticity in reproductive behavior and mediation by the adrenocortical stress response
Brij K. Gupta	Cell Biology/Biochemistry	University of South Dakota	Antibody guided therapy of colon cancer using nano-siRNA technology
Nathan Z. Gwyn	Tectonics/Geophysics	East Carolina University	Emplacement and growth of shallow, complex intrusions, Henry Mountains, Utah
Maria Laura Habegger	Physiology/Functional Morphology	University of South Florida	Feeding morphology and biomechanics in billfishes (Families Xiphiidae and Istiophoridae)
Shanna D. Hanes	Ecology	Auburn University	Hyperthermic stress-induced autophagy in the tropical anemone, <i>Aiptasia pallida</i> .
Edward M. Hanlon	Behavioral Ecology	University of Mississippi	Maternal Investment in Clutch Size as a Function of Male Mate Quality in Ocellated Turkeys (<i>Meleagris ocellata</i>)

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Caroline J. Harper	Physiology/Functional Morphology	Brown University	The Morphology of the Papillae and Lingual Vessels in the Tongue of a Nectar-Feeding Bat, <i>Glossophaga soricina</i>
Aaron Haynes	Conservation Biology	Sam Houston State University	Potential Role of Piscivorous Snakes on Regulation Invasive Aquatic Prey Populations
Dean G. Hazle	Tectonics/Geophysics	Hope College	Structural mapping and tectonic history in the the Stensjö-strand supracrustal belt, Halland Sweden
Ariadna Herrera	Behavioral Ecology	Universidad de Guanajuato	THE DILEMMA BETWEEN MATING AND LIFE SPAN: THE JUVENILE HORMONE EFFECT UPON PATHOGENS SUSCEPTIBILITY AND OXIDATIVE DAMAGE
Briana C. Horwath	Anthropology	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
Jessica M. Howells	Ecology	Appalachian State University	Induction in <i>Solidago altissima</i> as a possible mechanism for genotypic effects on aphid herbivores
Ashley M. Huber	Physiology/Functional Morphology	Georgetown University	Does Resveratrol Induce Fast-to-Slow Phenotypic Shifts and Improve Oxidative Enzyme Concentrations in the Skeletal Muscle of Primates?
Chad M. Hunter	Cell Biology/Biochemistry	East Carolina University	Characterization of DNA Polymerase Delta using a combined in vivo and in vitro strategy
Nora Ibrahim	Cell Biology/Biochemistry	University of Illinois at Urbana-Champaign	The Catalysis of DNA Hydrolysis by Sequence-Tolerant Deoxyribozymes
Beatrice N. Irungu	Chemistry	University of Nairobi	Bio-prospecting for anti-malarial compounds from some Kenyan medicinal plants

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Melissa A. Johnson	Systematics/Evolutionary Biology	University of Hawaii at Hilo	The importance of geographic isolation in the evolution of reproductive barriers between species of Hawaiian <i>Cyrtandra</i> (Gesneriaceae)
Daniel I. Johnson	Physics/Astronomy	University of North Alabama	A Search For Variable Stars in Two Old Open Clusters
Laura E. Johnson	Anthropology	Duke University	The biomechanics of vertical clinging in primates
Jennifer A. Johnson	Ecology	Florida Institute of Technology	The Reproductive Biology of <i>Myrophis punctatus</i> In The Indian River Lagoon Near The Sebastian Inlet
Emily A. Kane	Physiology/Functional Morphology	Clemson University	Functional tradeoffs in locomotor specialists: the effects of habitat on morphology, performance, and the integration of locomotion and feeding in Cottids
Alex H. Kasprak	Paleontology/Sedimentation	Brown University	A Paleobarometric Record of End-Triassic Atmospheric pCO ₂ from the Algarve Basin (Portugal)
Alicia M. Kennedy	Systematics/Evolutionary Biology	Villanova University	Stem Lepidosauers from Driefontein: An Apomorphy Based Approach
John Kerr	Physics/Astronomy	Ohio University	Variability Study of Three Newly Discovered VHE Gamma-ray Blazars
Anton I. Khalilieh	Physiology/Functional Morphology	Ben-Gurion University of the Negev	The physiological responses to food deprivation in a passerine bird (<i>Passer domesticus</i>) ostensibly not adapted to prolonged fasting
Shafkatul I. Khan	Ecology	University of Georgia	Tropical tree seedlings's response to change in climate
Harrison S. Kibombo	Chemistry	University of South Dakota	Characterization of hydrothermally synthesized platinum supported TiO ₂ -SiO ₂ catalysts for the photocatalytic degradation of toxic phenolic compounds

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Eun Sun Kim	Ecology	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>
Megan S. Kirchgessner	Ecology	State University of New York College of Environmental Science and Forestry	Bovine Viral Diarrhea Virus: A Risk Assessment of Interspecies Disease Transmission
Skye N. Klingbeil	Systematics/Evolutionary Biology	Portland State University	Inheritance of a Heteroplasmic Mitochondrial DNA Mutation in <i>Caenorhabditis briggsae</i>
Candice M. Klingerman	Behavioral Ecology	Lehigh University	Energy availability affects sexual motivation and sexual reward through the actions of ghrelin and leptin.
Alexandra M. Koba	Physiology/Functional Morphology	San Francisco State University	Art and Science of Anatomy: Hemisection of the Head and Neck
Travis Kocurek	Ecology	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.
Jennifer A. Koop	Ecology	University of Utah	Darwin's finches fight back: costs of immunity
Andrew C. Kraemer	Systematics/Evolutionary Biology	Iowa State University	Identifying the Proximate (Molecular) and Ultimate (Evolutionary) Mechanisms Driving a Color Polymorphism in a <i>Plethodon</i> Salamander
Jackie M. Langille	Tectonics/Geophysics	University of Tennessee-Knoxville	Extension in the convergent Himalaya: Quantitative constraints on extension accommodated by the Leo Pargil shear zone, NW India
Fredrick Larabee	Physiology/Functional Morphology	University of Illinois at Urbana-Champaign	Structural Properties of a High-Performance Biological Material: Cuticle of the Trap-Jaw Mandible

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Min-Young Lee	Physics/Astronomy	University of Wisconsin-Madison	OH Observations of the Perseus Molecular Cloud: Unveiling the Processes of Molecule Formation
James J. Lewis	Systematics/Evolutionary Biology	University of California-Irvine	Is there a butterfly mimicry toolkit? Co-option vs. parallel evolution in wing pattern development
Christopher J. Li	Psychology	Duke University	Exploring the Relationship Between Mindfulness, Impulsivity, Neural Response to Reward and Dopamine
Zachery Lifton	Tectonics/Geophysics	Georgia Institute of Technology	Refining geodetic rates of deformation in the central Walker Lane with a new densified GPS network
Chia-Hua Lin	Ecology	Ohio State University	Does clonal structure affect pollinator-mediated mating pattern in <i>Dicentra canadensis</i> (Fumariaceae)?
Irene A. Liu	Behavioral Ecology	Duke University	Does genetic diversity predict extra-pair mating in populations of a songbird?
Vikram D. Londhe	Physics/Astronomy	University of Pune	To Find and study New Habitable Planet(exoplanet)using Ocular Telescope and Doppler Spectroscopy.
Laura Louon	Behavioral Ecology	Ithaca College	Movement behavior in the eastern chipmunk (<i>Tamias striatus</i>)
Wenzhe Lu	Cell Biology/Biochemistry	University of Texas Medical Branch	Designing novel proteins with enhanced mechanical strengths
Joshua A. Lukas	Cell Biology/Biochemistry	Bethel College	Tamoxifen- and Estradiol-induced alterations in the mRNA and miRNA expression in human hepatocytes
Patrick J. Lyons	Behavioral Ecology	State University of New York at Stony Brook	Why settle for less? Constraints on adoption of an optimal predator avoidance strategy
Rafael Maia	Systematics/Evolutionary Biology	University of Akron	Evolution and diversification of iridescent feather coloration in African Starlings

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Somsubhra Maity	Physics/Astronomy	North Carolina State University	Photothermal response of nanoparticles inside polymer nanocomposites and nanothermometry using fluorescence technique
Sonia Merritt	Engineering	Case Western Reserve University	Pressure-Mediated Gene Therapy for Ocular Diseases
Steven J. Micheletti	Systematics/Evolutionary Biology	San Francisco State University	Evolution of Adaptive Cryptic in Lava Field Dwelling Side-Blotched Lizards (<i>Uta stansburiana</i>)
John K. Millhauser	Anthropology	Northwestern University	Salt of the Earth: Craft and community at San Bartolome Salinas, a Postclassic and early Colonial salt-making village in Mexico
Desiree' J. Moffitt	Conservation Biology	Appalachian State University	The Impact of Amphibian Chytrid Fungus on Plethodontid Populations in the Southern Appalachians
James Monahan	Physics/Astronomy	Drexel University	Cherenkov Signal Simulator for Water Detectors
Justin Moore	Physics/Astronomy	University of North Carolina at Chapel Hill	Consistent Weather Monitoring for PROMPT at CTIO
Emily C. Moorefield	Cell Biology/Biochemistry	Wake Forest University	The effect of hepatocyte nuclear factor 4 alpha haploinsufficiency on the development and function of pancreatic beta-cells
Carlos F. Morantes	Physiology/Functional Morphology	Bellevue Community College	Evaluating volume-surface ratio in bee brains
James J. Muraco	Behavioral Ecology	Texas State University-San Marcos	Maintenance of a unisexual-bisexual mating complex: importance of behavioral syndromes and hormones
Ebony G. Murrell	Ecology	Illinois State University	The roles of predation and predation resistance tradeoffs: mechanisms of ecological succession in an aquatic invertebrate community.
Nicole Musselwhite	Anthropology	University of Southern Mississippi	Burial Chronological Sequencing at Tipu, Belize Based on Fluoride Testing

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Cameron E. Naficy	Physiology/Functional Morphology	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
Jamie L. Nickerson	Cell Biology/Biochemistry	Bates College	Genetics of susceptibility to bone loss related to periodontal disease
Daniel T. Nuzzo-Mueller	Physics/Astronomy	Worcester Polytechnic Institute	Optimization of substrate surface topography for organic thin film solar cells
Itai Opatovsky	Ecology	Ben-Gurion University of the Negev	Pest predation by agrobiont and immigrant spiders in wheat fields
Christopher L. Owen	Systematics/Evolutionary Biology	University of Connecticut	A genomic perspective of the pattern and process of speciation among three sister cryptic species of Australian cicadas
Laurin Pacheco	Cell Biology/Biochemistry	University of Miami	Vascular Differentiation Potential of Progenitor Cells
Michael S. Painter	Behavioral Ecology	Virginia Polytechnic Institute and State University	Characterizing the light-dependent magnetic compass in <i>Drosophila melanogaster</i>
Dustin Partridge	Ecology	Fordham University	Green Roofs as Migrating Bird and Breeding Bird Habitat
Colin C. Phifer	Ecology	University of Hawaii at Hilo	Reproductive Success of Two Dioecious Plants in a Fragmented Landscape
Tony Pierson	Cell Biology/Biochemistry	George Mason University	Effects of Exposure of Cigarette Smoke on the Expression Levels of Antimicrobial Peptides in Human Lung Epithelial Cells
Allyson L. Plantz	Ecology	Southwestern University	Munching on 'egg' shells: Mechanisms behind egg predation by a model predator, the redeared slider (<i>Trachemy scripta elegans</i>)

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Ryan M. Pollyea	Hydrology/Geomorphology	University of Idaho	Experimental evaluation of least-squares methods for quantifying surface roughness from LIDAR-derived datasets
RaeAnn Powers	Ecology	University of Nebraska at Lincoln	Understanding Diversity in Managed Grassland Ecosystems
Adam C. Pritchard	Systematics/Evolutionary Biology	State University of New York at Stony Brook	The Phylogeny, Radiation, and Morphological Change Rates of Basal Diapsid Reptiles
Jonathan A. Quinonez	Behavioral Ecology	University of Utah	Vertical Acceleration Capacity of Mus Musculus in Relation to Social Dominance Ability
Laura D. Radville	Ecology	University of Rhode Island	Invasive herbivore feeding induces a hypersensitive response in hemlock trees
Brett Ragozzine	Physics/Astronomy	Ohio University	Modeling the Dark Matter of Galaxy Clusters Using the Tensor-Vector-Scalar Theory of Alternate Gravity
Alim F. Ramji	Anthropology	University of Oklahoma	Disease Perception: How Cultural Understandings Through Art May Affect Treatment, A Pilot Project In Three Continents.
Jonathon C. Reeck	Cell Biology/Biochemistry	Boise State University	Collagen Type XI(a1) Regulates Osteoblast Differentiation and Mineralization in the Developing Zebrafish Craniofacial Skeleton
Sandra M. Rehan	Behavioral Ecology	Brock University	Social behavior of Neotropical small carpenter bees
Adam C. Reichard	Cell Biology/Biochemistry	Wright State University	M1 and M2 macrophage response after HSV-1 infection: an in vivo model for HSV-1 corneal infections
Pamela L. Reynolds	Ecology	University of North Carolina at Chapel Hill	Interactive effects of resources and consumers on marine vegetation: participation in an international experimental network

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Nicoletta Righini	Anthropology	University of Illinois at Urbana-Champaign	Foraging decisions, patch choice, and nutrient regulation in Mexican black howler monkeys
Ashley Robart	Behavioral Ecology	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> .
Mark E. Robinson	Anthropology	Louisiana State University-Baton Rouge	Wood Selection Strategies of the Ancient Maya, Paynes Creek National Park, Southern Belize
Andrea M. Rocchio	Paleontology/Sedimentation	Hobart and William Smith Colleges	Assessment of historic (~1900-2010 C.E.) nutrient sources and paleoproductivity in Honeoye Lake, NY
Katrina S. Rodzon	Psychology	Utah State University	Training Program for Self-Controlled Behavior in Children.
Joshua M. Rosera	Petrology/Geochemistry	University of North Carolina at Chapel Hill	High resolution geo- and thermochronology of the Questa Porphyry Mo deposit and associated intrusions, Northern New Mexico
Daniel E. Runcie	Systematics/Evolutionary Biology	Duke University	Heat shock responses and the evolution of robustness to thermal stress in development
Anne M. Runkel	Cell Biology/Biochemistry	Middlebury College	Transcriptional Analysis of Akap9: a study of the genetic basis of infertility
Arpan Satsangi	Engineering	University of Texas at San Antonio	Development of resorbable, multi-layered polymer membranes for multi-modal drug release at bone defect sites.
Craig A. Schenck	Cell Biology/Biochemistry	Ohio University	Proteomics approach to studying signal transduction in a plants' response to gravity

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Arun Sethuraman	Systematics/Evolutionary Biology	Iowa State University	Understanding genome-level effects of gene-flow in experimental evolution lines of temperature sensitive <i>Caenorhabditis elegans</i> mutants.
Jasmine L. Shinko	Cell Biology/Biochemistry	Gannon University	Characterization of Antibiotic Resistant <i>Aeromonads</i> from Lake Erie and Evaluation of their Pathogenicity
Kartick P. Shirur	Ecology	University of Mississippi	Do Symbiodinium algae in octocorals use the host as an umbrella?
Gretchen L. Sholty	Psychology	University of California-Los Angeles	Psychobiological Determinants of Stress Reactivity in Schizophrenia
Ann M. Showalter	Ecology	Miami University Ohio	The interactive role of lake productivity and sediment-feeding fish on growth and overwinter survivorship of bluegill sunfish
Leanne M. Shulman	Psychology	Middlebury College	The Effects of Sexual Experience on Memory and Perseverance in Adult Male Rats
Nyssa J. Silbiger	Ecology	University of Hawaii at Manoa	Why the "little guys" matter: Organisms that shape coral reefs and their response to ocean acidification.
Arpita Sinha	Engineering	Portland State University	Evolving Neuromorphic non-linear time dependent networks
Ben Smit	Ecology	University of Pretoria	The role of water availability in thermoregulation at high temperatures
Stephanie A. Smith	Cell Biology/Biochemistry	University of Idaho	Microbial Activities Effecting Selenium Mobility in Seleniferous Environments
Fabian A. Soto	Psychology	University of Iowa	General principles of visual object recognition

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D. Sarah Stamps	Tectonics/Geophysics	Purdue University-West Lafayette	Kinematic constraints on the Lwandle-Somalian plate boundary across Madagascar from GPS geodesy
Travis S. Steffens	Anthropology	University of Toronto	Habitat Fragmentation and Habitat Loss Effects on Lemur Species Occurrence in Multiple Landscapes
Michael S. Studivan	Ecology	St. Mary's College of Maryland	Effects of Oil and the Oil Dispersant Corexit« 9527 on Bleaching of the Alcyonacean Soft Coral Xenia elongata
Corianne Tatariw	Ecology	University of Alabama at Tuscaloosa	Exploring Community Dynamics of Nitrate Removers in the Cahaba River, Alabama
Kimberly A. Tenggardjaja	Systematics/Evolutionary Biology	University of California-Santa Cruz	A Genetic Comparison of Endemic and Non-Endemic Damsel-fishes throughout the Hawaiian Archipelago
Jeffery M. Tharp	Systematics/Evolutionary Biology	Indiana State University	The effect of environmental variance on thermal acclimation capacity
Courtney Thomason	Ecology	Texas Tech University	Hosts as a Partitioned Resource: a Study of Parasite Co-infection
Amy M. Thomson	Cell Biology/Biochemistry	Widener University	Effect of Atrazine Exposure on Gene Regulation in Adult Rana pipiens
Tomislav Ticak	Cell Biology/Biochemistry	Miami University Ohio	Analysis of Punitive Trimethylamine Operon in Desulfitobacterium hafniense (DCB-2 / Y51)
Tenira J. Townsend	Cell Biology/Biochemistry	Oakland University	Role of PARP-1 in UVB-treated lens epithelial cells
Vivian U	Physics/Astronomy	University of Hawaii at Manoa	Kinematics and Energetics in Luminous Infrared Galaxies
Amy C. Ulappa	Ecology	Boise State University	Nutritional and chemical factors shaping diet selection by a sagebrush dietary specialist: the pygmy rabbit

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Karen Uy	Conservation Biology	University of Hawaii at Hilo	Comparison of temperature tolerance between two sympatric populations of Hawaiian picture-winged Drosophila: <i>D. silvestris</i> and <i>D. sproati</i> .
Benjamin G. Van Allen	Ecology	Rice University	Previous habitat quality of colonizers drives community dynamics in new habitats
Kimberly L. VanderWaal	Ecology	University of California-Davis	Identifying routes of pathogen transmission among wild and domestic ungulates in central Kenya
Amanda VanSteelandt	Anthropology	Arizona State University	The construction of human disease ecologies through cultural transmission: A Nivacle example
Andrew L. Verardo	Systematics/Evolutionary Biology	Georgetown University	EVOLUTION OF PANCREATIC ENDO- AND EXOCRINE CELLS IN DEUTEROSTOMES
Lee O. Villatoro	Psychology	University of Wisconsin-Milwaukee	Immediate versus delayed consequences of cerebellar damage on spatial processing in the Morris Water Maze
Benjamin J. Wainwright	Conservation Biology	University of Hawaii at Manoa	Indonesian Gene Flow and Implications for Potential Marine Conservation Strategies.
Christopher Walker	Cell Biology/Biochemistry	Ohio State University	In Vivo Characterization of Two Non-Toxic and Non-Immunosuppressive FTY720-derived Compounds for Use as Anti-Leukemic Agents
Jean P. Walker Soler	Physics/Astronomy	Rutgers, The State University of New Jersey	How did the Milky Way Form? A Semi-Analytical Study of Galaxy Evolution
Rachel E. Walsh	Ecology	University of California-Berkeley	Impact of Biotic Interactions & Environmental Variables on Range Shifts in Chipmunks in Yosemite National Park

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Lingyu Wang	Cell Biology/Biochemistry	University of Miami	The role of Neurabin, a neural tissue-specific protein, in egg polarity establishment and early embryo development
Linet C. Watson	Conservation Biology	SUNY College of Environmental Science and Forestry	Trophic Ecology and Conservation of the Giant Arapaima in South-western Guyana
Whitney Webb	Ecology	Davidson College	The Effect of Sward Height and Grazing Frequency on the Diversity and Abundance of Selected Insect Taxa in Sustainable Grazing Systems
David K. Weinstein	Paleontology/Sedimentation	University of Miami	Deep bioerosion: Variations in biological alteration in different mesophotic reef zones and the impacts on coral framework sustainability
Rachel S. Welt	Ecology	Fordham University	Can rapid evolution in response to a climatic event alter levels of gene flow in an annual plant?
Rachel D. Wigginton	Ecology	California State University-Long Beach	Impacts of <i>Lepidium latifolium</i> on habitat quality for song sparrows in a northern California brackish marsh
Julie M. Wilkerson	Chemistry	University of Texas at Austin	Electroluminescent Materials Based on Lanthanide-Containing Conducting Metallopolymers
Isak Wold	Physics/Astronomy	University of Wisconsin-Madison	A Search for Ultraluminous Infrared Galaxies at Early Cosmic Times
Stephanie A. Wolf	Physiology/Functional Morphology	James Madison University	Locomotor ontogeny and postcranial growth in <i>Propithecus verreauxi</i> and <i>Lemur catta</i> .
Molly C. Womack	Behavioral Ecology	Colorado State University	Not all Signals are Received Equally: Finding the Mechanism Behind Signal Evolution in the Painted Forest Toadlet

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Pamela Wong	Conservation Biology	University of Toronto	Reliability and accuracy of Inuit estimates of polar bear sex, age, size and age of track from in situ track observations
Qing Yan	Physiology/Functional Morphology	University of Miami	The Role of an Expanded Glutamatergic Interneuron Population in the Motor Recovery of Zebrafish Glycine Transporter 1 Mutant
Yu Zhang	Engineering	State University of New York at Stony Brook	Investigation of high quality B12As2 heteroepitaxial films on c-plane off-axis 4H-SiC substrates
Da-Jiang Zheng	Psychology	Oklahoma State University	Social Recognition in Prairie Voles (<i>Microtus Ochrogaster</i>): Discriminating lovers from strangers
Mingna Zhuang	Physiology/Functional Morphology	University of California-Berkeley	Gliding Performance in the <i>Anolis</i> Genus