

Grants-in-Aid of Research Awards
October 15, 2003 Grant Cycle

Alphabetical by Recipient's Name

Grant Recipient	Research Field	Institution	Study Title
Peter J. Adam	Systematics/Evolutionary Biology	University of California-Los Angeles	Marine Mammal Feeding Guild Structure and Changeover Through the Cenozoic
Salvatore J. Agosta	Ecology	University of Pennsylvania	Tritrophic interactions in a tropical dry forest: Influence of the parasitoid <i>Enicospilus lebophagus</i> (Hymenoptera) on host plant suitability for <i>Rothschildia lebeau</i> (Lepidoptera: Saturniidae)
Laura J. Alport	Anthropology	University of Texas at Austin	Fungiform papillae and the evolution of primate taste perception
Mohannad G. AL-Saghir	Systematics/Evolutionary Biology	Virginia Polytechnic Institute and State University	A molecular approach to define genetic pools in crops: A case study in peanut
Barry W. Alto	Ecology	University of Florida	The effects of larval competition on vector competence of mosquitoes <i>Aedes albopictus</i> and <i>Ae. aegypti</i> for dengue virus
Lorenzo Alvarez	Ecology	Centro de Investigacion Cientifica y de Educacion Superior de Ensenada	Influence of substrata over structure of fish communities in Cabo Pulmo coral reef, BCS Mexico
Angel A. Alvarez	Cell Biology/Biochemistry	University of Illinois at Chicago	Differentiation of human mesenchymal stem cells into retinal cells
Carrie M. Anderson	Physics/Astronomy	New Mexico State University	Haze Distribution in Titan's Lower Atmosphere
Ursula S. Anderson	Psychology	Georgia Institute of Technology	Same/Different Tactile Discrimination Learning in African Elephants
David E. Ausband	Ecology	University of Montana	Assessing the success of reintroducing swift fox to the Blackfeet Indian Reservation, Montana
Eric J. Austria	Chemistry	University of Colorado at Colorado Springs	Determination of Catechins in Over-The-Counter Dietary Supplements

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Jill A. Awkerman	Ecology	Wake Forest University	Comprehensive Distribution of Waved Albatrosses within the Galapagos Marine Reserve
Nicolas G. Azios	Cell Biology/Biochemistry	University of Texas at Austin	Effects of Resveratrol from Red Wine on Metastatic Breast Cancer
Juan A. Baeza	Behavioral Ecology	University of Louisiana at Lafayette	Experimental test of the effect of local mate competition on sex allocation in the marine shrimp <i>Lysemata wurdemanni</i> : a protandric simultaneous hermaphrodite with low risk of sperm competition
Lynne R. Baker	Ecology	University of Minnesota, Twin Cities	Conservation Status of the Sclater's Guenon (<i>Cercopithecus sclateri</i>) in Southern Nigeria
Kristin A. Bakkegard	Ecology	Utah State University	The genetics of colonization of two amphibian species after the 1980 eruption of Mount St Helens
Corinne A. Balint	Cell Biology/Biochemistry	Middlebury College	Investigating a putative role for FimA in <i>Streptococcus mutans</i> adherence to endothelial cells
Nabin Baral	Ecology	Florida International University	Natural Resources Use and Conservation Attitudes of Local People in the Western Terai Landscape Complex, Nepal
Lindsay R. Barclay	Cell Biology/Biochemistry	Albertson College of Idaho	Differential Cell Sensitivity to Cadmium: A Study of Apoptosis
Brian C. Barringer	Systematics/Evolutionary Biology	Cornell University	Polyploidy, Inbreeding Depression, and the Evolution of Mating Systems in Flowering Plants
María N. Barrios	Ecology	Universidad Nacional del Comahue	Historical deer abundance, patterns of damage and deer use in native forests on Isla Victoria, Patagonia, Argentina

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Anthony J. Baumert	Ecology	University of Pittsburgh	A novel evaluation of a proposed mechanism of competition Can resource consumption predict patterns of abundance?
Jake J. Beaulieu	Ecology	University of Notre Dame	Effects of nitrate and land use on N ₂ O production from denitrification in aquatic sediments
Rachelle M. Belanger	Physiology/Functional Morphology	Bowling Green State University	The spatial representation of odor expression patterns in the olfactory lobe of male (<i>Orconectes rusticus</i>) in response to female pheromones
Lucas J. Benedict	Petrology/Geochemistry	State University of New York at Albany	K-Bentonites of the Devonian: Complexity of Altered Volcanic Ashes in the Appalachian Basin
Joshua B. Benoit	Ecology	Wittenberg University	Investigating antimycotics for biological control of ticks
Daniel A. Bergman	Behavioral Ecology	Bowling Green State University	Understanding chemical communication under lotic and lentic conditions
Sarah K. Berke	Ecology	University of South Carolina	Decorating for the Invertebrate Ball: The Whys and Wherefores of Behavioral Evolution
Dieldrich S. Bermudez	Physiology/Functional Morphology	University of Florida	Variation in Stress levels of Juvenile Alligators
Marica C. Bernstein	Physiology/Functional Morphology	University of Cincinnati	The effects of life-long protein malnutrition on maternal and infant behaviors
Kimberly J. Berry	Psychology	University of Arkansas at Little Rock	The Effects of Accutane on Anxiety in Male & Female Rats Using the Elevated Plus Maze
Kristin L. Bishop	Physiology/Functional Morphology	Brown University	Aerodynamic Force Generation by Stationary and Flapping Flexible Wings

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Lori A. Blanc	Ecology	Virginia Polytechnic Institute and State University	Experimental study of the longleaf pine cavity-nesting bird community: the role of the red-cockaded woodpecker
Jaime A. Blandino	Psychology	Georgia Southern University	Depression in Gay, Lesbian, and Bisexual Adults: Mechanisms of Increased Risk
Madalyn S. Blondes	Petrology/Geochemistry	Yale University	Temporal-compositional trends within single eruptions in the Big Pine Volcanic Field, CA
Scot D. Bohnenstiehl	Engineering	Montana Tech of The University of Montana	Photolysis of Titanium Tetrachloride
Ninad R. Bondre	Petrology/Geochemistry	Miami University Ohio	Field relations, petrography, and geochemistry of dikes and associated lava flows around Sangamner: Implications for the plumbing system of the Deccan Volcanic Province, India
Brendan J. Borrell	Behavioral Ecology	University of California-Berkeley	Nectar preferences in orchid bees: testing Baker's Viscosity Hypothesis
Amy L. Brock	Hydrology/Geomorphology	University of Nevada-Las Vegas	Development a stage IV calcium carbonate soil at Mormon Mesa, Nevada
David R. Brown	Ecology	Tulane University	Sex-biased winter distribution of a monomorphic songbird at multiple spatial scales
Denise A. Bruesewitz	Ecology	University of Notre Dame	Effect of zebra mussels (<i>Dreissena polymorpha</i>) on the fate of dissolved inorganic nitrogen
Laura A. Buchanan	Engineering	University of Kentucky	Effect of Chemical Composition and Crystalline Structure on Protein Adsorption
John M. Buchner	Cell Biology/Biochemistry	University of Georgia	In vitro DNA binding studies of the Novel Site-Specific Recombinase, Piv

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Chris I. burcher	Hydrology/Geomorphology	Virginia Polytechnic Institute and State University	Landscape transformations: Geomorphological effects on macroinvertebrates in suburbanizing streams
Amy J. Burgin	Ecology	Michigan State University	Nitrate removal in aquatic ecosystems
Kurtis C. Burmeister	Tectonics/Geophysics	University of Illinois at Urbana-Champaign	Magnetic Susceptibility anisotropy Analysis of rocks associated with deformation in the Appalachian fold-thrust belt, New York
Claudio Cabello Soto	Physics/Astronomy	Saint Louis University-Madrid Campus	Observation of Asteroidal Occultations in Spain
Matthew D. Carling	Systematics/Evolutionary Biology	Louisiana State University-Baton Rouge	Testing alternative hypotheses of South American divergence: a multi-locus approach
Jane E. Carlson	Ecology	Louisiana State University-Baton Rouge	The adaptive significance of female-biased nectar rewards in a neotropical herb
Deron T. Carter	Hydrology/Geomorphology	Central Washington University	The catastrophic draining of Lake Alvord: hydrologic reconstruction and cosmogenic ³ He ages of outburst flood deposits, Owyhee River basin, Oregon
Mollie F. Cashner	Systematics/Evolutionary Biology	Tulane University	The evolution of reproductive symbiosis within a subgenus of North American minnows [Notropis(Hydrophlox)]
Jennifer M. Catoc	Petrology/Geochemistry	University of the Philippines	Mineralization and Fluid Inclusion Study of the Buenas-Tinago and Balite Vein Systems in Mt Diwata (Diwalwal) Area, Monkayo, Compostela Valley, Mindanao
Samantha K. Chapman	Ecology	Northern Arizona University	Legacy Effects of Drought on Forest Ecosystem Nutrient Fluxes
Deviney M. Chaponis	Psychology	Wake Forest University	Transfer of Learned Forget Cues in an Animal Memory Task

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Stephanie M. Cheng	Ecology	University of Alberta	Microbial Community Analysis in a High Arctic Glacier
Irina Ciubotaru	Cell Biology/Biochemistry	University of North Carolina at Greensboro	The effect of EPA/DHA on the activation of transcription factors involved in the CRP gene expression
Jeffrey S. Coker	Cell Biology/Biochemistry	North Carolina State University	Accumulation of V-ATPase transcripts in tomato leaves during a systemic wound response
Christine F. Conrad	Petrology/Geochemistry	College of William and Mary	Planar Oxides as a Novel Approach to Understanding Metal Sorption in Natural Systems
Leslie W. Cook	Ecology	Davidson College	Effects of the Pesticide Malathion on the Development of Zebrafish, <i>Brachydanio rerio</i>
Timothy L. Cook	Hydrology/Geomorphology	University of Delaware	Suspended-Sediment Dynamics in the Turbidity Maximum of the Upper Delaware Estuary
Rebecca L. Coppins	Cell Biology/Biochemistry	University of Illinois at Urbana-Champaign	Controlling the Regioselectivity of RNA Ligation with DNA Enzymes
Dezba G. Coughlin	Engineering	University of California-Berkeley	Effects of Elastin and Collagen on Local Residual Strains
Brian A. Counterman	Systematics/Evolutionary Biology	Louisiana State University-Baton Rouge	The evolution of X chromosome inactivation in <i>Drosophila</i>
Allison L. Craig	Hydrology/Geomorphology	Clemson University	The effect of vegetation disturbance on the temperature of a stream
Emily R. Cramer	Behavioral Ecology	St. Mary's College of Maryland	Vocal performance and song type use in red-winged blackbirds
Lisa H. Crampton	Ecology	University of Nevada, Reno	Phainopepla Population Dynamics and Genetic Structure in Fragmented Habitats
Erin L. Crowgey	Cell Biology/Biochemistry	Miami University Ohio	Understanding the Roles of Hsp70 and Hsp90 in Protein Deficient Mice

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Xiaohui Cui	Computer Science/Mathematics	University of Louisville	Collaboratively searching and operating with multiple robots using local communication
Deborah L. Cunningham	Anthropology	University of Missouri-Columbia	Postcranial proportional variation in Australopithecus
Guy W. Dadson	Chemistry	California State University-Fullerton	Spectroscopic and Kinetic Studies of Atmospheric Radicals
Melissa A. Dakin	Psychology	Colorado State University	Color vision variation during pregnancy
Catherine R. Darst	Systematics/Evolutionary Biology	University of Texas at Austin	Evolutionary and Ecological Dynamics of a Poison Frog Mimicry Complex
Kirsten C. Davis	Systematics/Evolutionary Biology	University of San Diego	Population genetic variability in the San Diego fairy shrimp, <i>Branchinecta sandiegonensis</i> : insights from microsatellite DNA analysis
Lisa M. DeLucia	Physiology/Functional Morphology	Hobart and William Smith Colleges	Comparison of Ultraviolet Visual Capabilities in <i>Xenopus laevis</i> and <i>Ambystoma tigrinum</i>
Matthew J. Demmer	Engineering	Saint Louis University	Spontaneous Formation of Hydroxyapatite on Alkali treated Titanium
Alison M. Derry	Ecology	Queens University	Rapid Evolution of Zooplankton Following Environmental Change
Mandar V. Deshpande	Engineering	University of Illinois at Chicago	Characterization of Photostrictive PLZT Material for Developing a Light Driven Micro-fluidic dispenser for a Chemical based Visual Prosthesis
Sarah E. Diamond	Ecology	Bucknell University	<i>Mordellistena convicta</i> : Did nutritional variation facilitate a host shift from stems to galls?
S. G. Dillard	Psychology	North Carolina State University	Breaking the Sound Barrier: Can Young Children Use Newly Acquired Words to Describe Preverbal Memories?

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Tracy L. DiMezzo	Ecology	University of Illinois at Springfield	Uptake Analysis of Fluorescently-labeled Organic Phosphate Substrates by Aquatic Hydrophobic Bacteria
Michael R. Disney	Ecology	Oklahoma State University	Mesocarnivore Abundance in Oak Forest Patches: A Comparison of Scent Station and Live-Trapping Techniques
Jeremy T. Dobler	Physics/Astronomy	University of Arizona	Novel Alternating Frequency Doppler Lidar Instrument for Wind Measurements in the Lower Troposphere
David H. Dommer	Physiology/Functional Morphology	Virginia Polytechnic Institute and State University	Characterization of the Magnetoreception Mechanism of <i>Drosophila melanogaster</i>
Mathew E. Dornbush	Ecology	Iowa State University	Species-Specific Impacts on Grassland Biogeochemistry Mediated Through Plant-Microbe Interactions
Rachel P. Dudik	Physics/Astronomy	George Mason University	A Multi-wavelength Investigation of LINER Galaxies
Jenna F. DuMond	Cell Biology/Biochemistry	University of North Carolina at Charlotte	Inhibition of Glycosylasparaginase
Robin C. Dunkin	Physiology/Functional Morphology	University of North Carolina at Wilmington	Ontogenetic Changes in the Thermal and Buoyant Properties of Atlantic Bottlenose Dolphin Blubber (<i>Tursiops truncatus</i>)
Jacqueline M. Dunn	Physics/Astronomy	Texas Christian University	Environmental Influences on Dwarf Irregular Galaxies
Justin L. Edge	Ecology	Berry College	Population Study of Eastern Coyotes (<i>Canis latrans</i>) in Northwest Georgia
Holger B. Elischberger	Psychology	University of North Carolina at Chapel Hill	Examining the Linkages Among Knowledge, Memory, and Suggestibility
Armin T. Ellis	Physics/Astronomy	Dartmouth College	Auroral Imaging from Space

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Robert G. Ellis-Hutchings	Cell Biology/Biochemistry	University of California-Davis	Effects of Polybrominated Diphenyl Ether Exposure on Biochemical Indicators of Nervous System Development
Damon T. Ely	Ecology	University of Georgia	Export of stream organic matter during storms as an indicator of recovery from logging disturbance
Amanda L. Ensminger	Behavioral Ecology	University of Kentucky	Mhc, mate choice, and a novel disease in house sparrows
Michelle A. Evans-White	Ecology	University of Notre Dame	Ecological stoichiometry in benthic aquatic ecosystems
Laurie d. Fajardo	Ecology	Instituto Venezolano de Investigaciones Cientificas	Tropical dry forest restoration on Isla de Margarita, Venezuela
Nicole L. Falk	Anthropology	University of South Florida	Were Pre-Inca Agriculturalists and Herders Buried Together in the Lurin
Elizabeth P. Falwell	Cell Biology/Biochemistry	Virginia Polytechnic Institute and State University	Fibrosarcoma-induced dysregulation of interleukin activity and modulation through paclitaxel (Taxol®)-mediated signal transduction
Anna A. Felton	Hydrology/Geomorphology	Bates College	Organic Carbon Cycling in Laminated Sediments from Coastal Lacustrine and Marine Environments, Eastern Canadian Arctic
Elise D. Ferree	Behavioral Ecology	University of California-Santa Cruz	The influence of male attractiveness on maternal care in two populations of Oregon juncos
Ryan L. Fimmen	Petrology/Geochemistry	Duke University	Reforestation effects on soil iron dynamics in northwestern South Carolina
Ryan N. Fiorini	Cell Biology/Biochemistry	Medical University of South Carolina	Pharmacological Alterations of Hepatic Steatosis for Successful Transplantation
Tara S. Fletcher	Ecology	University of Washington	Factors driving Hedera hibernica (English ivy) invasion in Pacific Northwest forests

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Valerie S. Foster	Behavioral Ecology	University of California-Irvine	Sex allocation in zebra finches may depend upon differential costs to parents
Kurt L. Frankel	Tectonics/Geophysics	University of Southern California	Earthquake recurrence intervals and fault slip rates on the northern Death Valley-Furnace Creek and Fish Lake Valley fault zones
Melanie R. Frazier	Physiology/Functional Morphology	University of Washington	Into thin air: The paradox of flying insects at high altitude
Weilin W. Fu	Computer Science/Mathematics	Unknown Institution	A Pen Input ER Design Tool
Bryan C. Fuchs	Cell Biology/Biochemistry	Saint Louis University	Link between ASCT2, cell swelling, Bad phosphorylation and cancer cell survival
Jessica K. Gambill	Physics/Astronomy	George Mason University	Models of multiwavelength jets in active galactic nuclei
Joseph W. Gangestad	Physics/Astronomy	Williams College	Making the Most Accurate Measurements of the June 8, 2004, Transit of Venus, and Overcoming the Black Drop Effect
Gabriela Y. Garc�a	Physics/Astronomy	Universidad de los Andes, Venezuela	Analysis of Photometric Observations of RR Lyrae Stars in the Globular Cluster M15
Kathryn E. Gardner	Physiology/Functional Morphology	Cornell University	Caste Determination in the Bumble bee <i>Bombus impatiens</i> and the social parasite <i>Bombus citrinus</i> (Hymenoptera: Apidae)
Susan N. Gershman	Behavioral Ecology	University of California-Riverside	Multiple mating and paternity in wild-caught <i>Gryllus vocalis</i> field crickets
Alison J. Gillespie	Petrology/Geochemistry	Western Washington University	The potential for mass balance and paleoclimate records in ice cores of small mid-latitude glaciers
Alex C. Gilman	Ecology	University of California-Los Angeles	Species range and diversity across tropical environmental gradients

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Timothy E. Goode	Ecology	University of Illinois at Springfield	The functional significance and abundance of ammonia-oxidizing bacteria on the Illinois River floodplain
Smita Gopinath	Cell Biology/Biochemistry	Mount Holyoke College	RT-PCR analysis of select genes in BL/6 and BALB/c
Barbara P. Graff	Ecology	Universidad de Buenos Aires	Impact of Selective Grazing on Plant û Plant Interactions: The Role of the Spatial Pattern
Joshua E. Grainer	Ecology	James Madison University	Influence of predatory brook trout on algal biomass and leaf decomposition rate in streams
Suzanne M. Gray	Systematics/Evolutionary Biology	Simon Fraser University	The origin and maintenance of male color polymorphism in the Telmatherinid fishes of Sulawesi, Indonesia
Steve N. Guggino	Paleontology/Sedimentation	University of South Florida	Constraining model predictions for Pangaeen climate across the Permian-Pennsylvanian boundary: Evidence from brachiopod sclerochronology
Emily M. Haas	Chemistry	Gettysburg College	Photodissociation Dynamics of Acetaldehyde
Suzanne E. Hagell	Anthropology	The Graduate Center, The City University of New York	Body Size Variation and Ecology in Papio: Illuminating the Kinda Baboon (Papio hamadryas kindae) in Northwest Zambia
Jeong S. Han	Physiology/Functional Morphology	University of Texas Medical Branch	Role of CGRP in pain-related behavior and plasticity in the amygdala
Hsiao-Ping G. Han	Psychology	Florida International University	Borderline Personality Disorder Features in Nonclinical Young Adults: Associations with Differentiation of Self and Relational Aggression
Bree A. Hardcastle	Ecology	University of California-Santa Cruz	Effects of Serpentine-Associated Edaphic Variation on a Plant/Pathogen Interaction

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Laurel M. Hartley	Ecology	Colorado State University	Effects of Prairie Dogs on Plant Community Composition and Nutrient Cycling on the Shortgrass Steppe
Nathaniel E. Head	Cell Biology/Biochemistry	Marshall University	Inhibition of <i>Pseudomonas aeruginosa</i> Biofilms in Cystic Fibrosis
Christopher D. Heckel	Ecology	Georgia Southern University	Effects of invasive vines and pollinators on seed production in the endangered <i>Trillium reliquum</i>
Jennifer E. Heffler	Psychology	St. Lawrence University	Tympanic Gas Bladders and Hydrostatic Pressure Transduction in <i>G. petersii</i>
Sherry T. Hikita	Cell Biology/Biochemistry	University of California-Santa Barbara	Investigation of the Role of Osteopontin in Experimental Autoimmune Uveitis
Jeremiah S. Hill	Engineering	Louisiana Tech University	Ultrawideband Biomedical Research Kit
Andrea J. Hoffmeister	Cell Biology/Biochemistry	San Francisco State University	Specificity of histone lysine acetylation in the human beta-globin region
Christopher M. Holbrook	Ecology	University of Maine, Orono	Diet of endangered Atlantic salmon and potential competitors in a Maine stream
Samantha S. Hopkins	Paleontology/Sedimentation	University of California-Berkeley	Variation in oxygen stable isotope ratios as a proxy for water usage in small mammals
Brian D. Hunter	Psychology	University of North Florida	Fathers' Physiological Responses to Child-related Stimuli
Jess H. Jacobs	Chemistry	Jacksonville University	Fuel Cell Teaching Package
Tricia A. Johnson	Physics/Astronomy	University of North Dakota	Observations of Gamma-Ray Burst Afterglows
Shelley A. Judge	Tectonics/Geophysics	Ohio State University	The Origin and Evolution of the Wasatch Monocline, Central Utah
Colby A. Jurgenson	Physics/Astronomy	University of Denver	InfraRed Spectropolarimetry of Evolved Stars: Sifting Through Cosmic Dust

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Glenn G. Kacprzak	Physics/Astronomy	New Mexico State University	Halo gas and Stellar Kinematics of Intermediate Redshift Galaxies
Aaron B. Kaczowka	Physics/Astronomy	Worcester Polytechnic Institute	Shear Stiffness of Carbon Nanotubes
Agata E. Kamler	Ecology	San Francisco State University	Analysis of the coastal distribution of <i>Distichlis spicata</i> , a C4 grass: a focus on microhabitat and competition
Vishnu V. Kanupuru	Physics/Astronomy	University of North Dakota	Estimating Rotational Periods of Near-Earth Asteroids From Lightcurves
Steven A. Kawamoto	Cell Biology/Biochemistry	Ohio State University	Elucidating the mechanism of inhibition of bacterial RNase P by aminoglycoside derivatives
Clint D. Kelly	Behavioral Ecology	University of Toronto at Mississauga	Ejaculation strategies of males using alternative mating tactics
Sara M. Kienzle	Cell Biology/Biochemistry	Michigan State University	<i>Escherichia coli</i> Adherence in Secondary Environments
Brian P. Kinlan	Ecology	University of California-Santa Barbara	Linking environmental forcing, dispersal and patch dynamics in kelp forest communities
Jeremy J. Kirchman	Systematics/Evolutionary Biology	University of Florida	Evolution of flightless rails in Oceania: a molecular and morphological study of <i>Gallirallus</i>
Katrina Klugh	Ecology	West Virginia University	Identification of a novel aluminum resistance mechanism of mycorrhizal plants
Gage Koehler	Cell Biology/Biochemistry	Indiana University-Purdue University, Indianapolis	Expression and characteristic study of cold regulated proteins in roots
Jessica E. Krick	Physics/Astronomy	University of Michigan-Ann Arbor	Intracluster Planetary Nebulae as a Tool for Understanding Galaxy Evolution in Nearby Clusters
Mark A. Kroenke	Cell Biology/Biochemistry	University of Rochester	The effects of IFN-beta on MIP-1alpha and RANTES secretion in multiple sclerosis

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Steven E. Kroll	Hydrology/Geomorphology	Northern Illinois University	Influence of Oxygenates on the Fate and Transport of BTEX Compounds in Fine-Grained Soils
Christian H. Krupke	Behavioral Ecology	Washington State University	Investigation of the role of intra-specific acoustic communication in mate selection of <i>Euschistus conspersus</i>
Adam J. Kuperavage	Physiology/Functional Morphology	Pennsylvania State University	Biomechanical Insights into early Hominid Locomotion
Rochelle G. Labiosa	Ecology	Stanford University	The Red Sea Paradox: A highly productive oligotrophic region?
Luca Lai	Anthropology	University of South Florida	Tracing differences in dietary patterns between inland and coastal sites in Neolithic Sardinia
Terry E. Lancaster	Paleontology/Sedimentation	Kent State University	Evolutionary Adaptations to Life in Water: Brain and Body Size Estimation in Aquatic Mammals
Crystal N. LeCrone	Physics/Astronomy	Rose-Hulman Institute of Technology	Asteroid Photometry: An Undergraduate Research Project in Astronomy
Danielle N. Lee	Behavioral Ecology	University of Missouri-St. Louis	Early social environment influences the development of individual behavioral differences
Jae-Kyung Lee	Cell Biology/Biochemistry	University of North Texas	Characterization of a novel CD2 receptor, CS1 on human Natural Killer cells
Patrick R. Lemons	Behavioral Ecology	University of Nevada, Reno	Long-term Fitness Consequences of Conspecific Brood Parasitism
Nicholas A. Lesica	Physiology/Functional Morphology	Harvard University	The Effects of Natural Stimuli on the Response Properties of Cortical Neurons
Kenneth M. Levenstein	Behavioral Ecology	Arkansas State University	Breeding ecology of the cooperatively polyandrous Galapagos Hawk: how many males are enough?

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Lei Li	Cell Biology/Biochemistry	University of North Carolina at Chapel Hill	Acute regulation of Acyl-CoA synthetase 1 by phosphorylation
Melanie A. Link-Perez	Ecology	Miami University Ohio	Using distance-similarity relations to evaluate the importance of ecological drift
Karen J. Lipscomb	Chemistry	Indiana State University	Synthesis of Epiquinamide
Jesse S. Little	Engineering	State University of New York at Stony Brook	Flexion Creep of the Human Lumbar Facet Joint Capsule
Susanne J. Lockhart	Systematics/Evolutionary Biology	University of California-Santa Cruz	Phylogeny, reproduction and parasitism in cidaroid echinoids of the Antarctic
Elena M. Lopez	Ecology	University of Colorado at Boulder	Effects of aquatic exposure to methoprene on amphibian development
Candace Low	Behavioral Ecology	University of California-Santa Barbara	Vibrational interactions between a leaf-mining species and their parasitoids
Carolina G. Luchetti	Cell Biology/Biochemistry	Universidad de Buenos Aires	Insulin Resistance in the Polycystic Ovary Syndrome
Patrice M. Ludwig	Behavioral Ecology	University of Virginia	Relating phenotypic plasticity, behavioral ecology, and population dynamics in the forked fungus beetle, <i>Bolitotherus cornutus</i>
Dunja Lund	Psychology	University of Florida	The Roles of Frequency and Recency in Forming and Retrieving New Connections
Kathleen S. Lynch	Behavioral Ecology	University of Texas at Austin	The role of estrogen in modulating neuronal activity of central auditory areas in female anurans
Matthew S. Malinowski	Tectonics/Geophysics	State University of New York at Buffalo	Energy and soil-moisture effects on nonlinear deformation associated with near-surface seismic reflection sources
Gaurangi V. Malthankar	Cell Biology/Biochemistry	Idaho State University	Investigation of Relation between Energy-Metabolism and Cell Death in Rat Hippocampal Slice Cultures Exposed to Kainate Excitotoxicity

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Emily C. Marquez	Physiology/Functional Morphology	Bowie State University	The effects of estradiol and environmental contaminants on the reproductive development of the Red-sided garter snake (<i>Thamnophis sirtalis</i>) and the Corn snake (<i>Elaphe guttata</i>)
Paul R. Martin	Systematics/Evolutionary Biology	University of Washington	Latitudinal variation in speciation rates
Karen P. Maruska	Physiology/Functional Morphology	University of Hawaii at Manoa	Neuropeptide modulation of auditory and lateral line systems in coral reef fishes
Justin S. McAlister	Systematics/Evolutionary Biology	University of North Carolina at Chapel Hill	Testing for costs of phenotypic plasticity during development of <i>Lytechinus variegatus</i>
Sarah B. McClure	Anthropology	University of California-Santa Barbara	Assessing Prehistoric Local Interaction Through Elemental Analysis of Ceramics
Ryan W. McEwan	Ecology	Ohio University	A dendroecological analysis of remnant oak-ash savannas in the Bluegrass Region of central Kentucky
Virginia G. McHugh-Kurtz	Chemistry	Northern Illinois University	A Systematic Comparison of Alkaloidal Profiles of Coca Tea
Erin M. Meagher	Physiology/Functional Morphology	University of North Carolina at Wilmington	Investigating seasonal changes in the thermal biology of wild bottlenose dolphins (<i>Tursiops truncatus</i>)
Matthew J. Medeiros	Systematics/Evolutionary Biology	University of California-Berkeley	How many times has winglessness evolved in cave-dwelling Hawaiian moths?
Elizabeth A. Miller	Behavioral Ecology	Wilkes University	Agro-Farming by Gray Squirrels: An Experimental Approach
Richard M. Mitchell	Ecology	Auburn University	The Role of a Top Omnivore in Three Coastal Plain Headwater Streams

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Jennifer M. Moody-Weis	Ecology	University of Kansas	Large-scale abundance, colonization, and extinction patterns of the annual sunflower (<i>Helianthus annuus</i>)
David A. Moscovitch	Psychology	Bowie State University	Self-discrepancies in social phobia: The interaction of perceived abilities and performance standards
Jacqueline E. Moustakas	Systematics/Evolutionary Biology	University of California-Berkeley	Evolution and Development of Skeletogenic Tissues in Reptiles
Samrat Mukherjee	Engineering	Lehigh University	Fabricating and characterizing a micro sized membrane reactor- a thrust towards realizing miniaturized fuel processors
James W. Ndiritu	Chemistry	Kenyatta University	The stability of beta-carotene in dehydrated dark-green leafy vegetables stored in presence of an oxygen absorber
Silvia E. Newell	Hydrology/Geomorphology	Smith College	Hydrology of a Cloud Forest in Monteverde, Costa Rica
Sarah D. Newell	Petrology/Geochemistry	University of Florida	Relative changes in C3 and C4 biomass recorded by carbon isotopes of lipid biomarkers in the Maya Lowlands of Peten, Guatemala
Paula S. Nieto	Cell Biology/Biochemistry	Universidad Nacional de Cordoba	Expression of the Photopigment Melanopsin in Chicken Retinal Cells (RGCs)
Stephenson W. Nkinin	Cell Biology/Biochemistry	University of Cincinnati	Prevalence of <i>Pneumocystis jirovecii</i> Infections in Cameroon
Julian M. Norghauer	Ecology	University of Toronto	The Role of Predation and Herbivory in the Regeneration Ecology of Big Leaf Mahogany (<i>Swietenia macrophylla</i> KING)
Sarah R. Null	Cell Biology/Biochemistry	Indiana State University	Characterization of the mccC-like gene of plasmid pHPM8 and determination of microcin production by <i>Helicobacter pylori</i> HPM8

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Dawn M. O'Dee	Cell Biology/Biochemistry	Miami University Ohio	Does Corticosterone Inhibition of Cytokine Production Block Macrophage Activation in Protein Malnourished Mice?
Chris L. Pagliarulo	Cell Biology/Biochemistry	University of Arizona	Mechanisms enabling salt tolerant plants to grow in saline environments
C. E. T. Paine	Ecology	Louisiana State University-Baton Rouge	Testing the key assumptions of recruitment limitation
Sabrina L. Pakzad	Physics/Astronomy	University of Virginia	Figure Rotation in Triaxial Elliptical Galaxies
Gitika Panicker	Cell Biology/Biochemistry	University of Alabama at Birmingham	Identification of genes expressed in <i>Vibrio vulnificus</i> in its quiescent and active state
Thomas L. Parchman	Ecology	New Mexico State University	Coevolution on the Island of Hispaniola Between Crossbills and the Hispaniolan Pine
Jason Paris	Psychology	Marywood University	Sex Hormones, Cognition, and Academic Choices
Frederick K. Partey	Petrology/Geochemistry	Miami University Ohio	Tracing the source of fluorine in the fluorite deposits of the Rio Grande rift
Biren A. Patel	Physiology/Functional Morphology	State University of New York at Stony Brook	Bone Density in the Primate Wrist
John R. Paul	Systematics/Evolutionary Biology	University of Pittsburgh	Commonness and Rarity in Mesoamerican Psychotria Species: Tests of Evolutionary Hypotheses in a Phylogenetic Framework
Tara A. Peburn	Anthropology	The Graduate Center, The City University of New York	Cranial Architecture of the Papionini (Primates: Cercopithecidae): Analyses of Structural Variation and its Functional and Phylogenetic Implications

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Grant Recipient	Research Field	Institution	Study Title
Christopher J. Pellowski	Petrology/Geochemistry	South Dakota School of Mines and Technology	Application of visible and near-infrared spectroscopic methods for identification of lateral and vertical zonation relative to hydrothermal mineralization
Noah G. Perlut	Behavioral Ecology	University of Vermont	The effects of hayfield management on mating systems of Savannah sparrows (<i>Passerculus sandwichensis</i>) breeding in the Champlain Valley of Vermont
Morgan L. Perrone	Petrology/Geochemistry	New Mexico State University	Experimental determination of the biogenicity of moonmilk in Spider Cave of Carlsbad Caverns National Park, New Mexico using isotopic and major and trace element analyses
George H. Perry	Anthropology	Arizona State University	Inter-Specific Variation of Tooth Development Genes in Primates
Emily M. Peterman	Petrology/Geochemistry	Middlebury College	Deciphering Ordovician history of rocks from the Liberty -Orrington Belt, south-central Maine
Jelena Petrovic	Chemistry	Saint Francis University	Effects of Solution Composition on Adsorbed Cytochrome c Electrochemistry
Cecilia Poderoso	Cell Biology/Biochemistry	Universidad de Buenos Aires	Differential mitochondrial ERK1/2 trafficking during proliferative and steroidogenic responses in MA-10 cells
Stephen Porder	Ecology	Stanford University	Erosion, landscape development, and nutrient availability in tropical ecosystems
Luis O. Porras-Sánchez	Physics/Astronomy	Universidad de los Andes, Venezuela	Analysis of Photometric Observations of Cepheids Stars in the Andromeda Galaxy (M31)

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Konstantinos Pothakos	Psychology	State University of New York at Stony Brook	Interactions of tissue plasminogen activator (tPA) and brain-derived neurotrophic factor (BDNF) in the context of hippocampal learning
Jennifer S. Pressley	Cell Biology/Biochemistry	Virginia Polytechnic Institute and State University	Contributions of T Cell Subsets to Tumor Immunity: Implications for Tumor Vaccine Development
Nichole N. Price	Ecology	University of California-Santa Barbara	Indirect effects of herbivory on the recruitment of hard corals in Moorea, French Polynesia
Katie N. Provost	Systematics/Evolutionary Biology	College of William and Mary	Sexual Conflict under Stress: A molecular approach to quantifying the effects of mating on Hsp70 expression in <i>Drosophila melanogaster</i>
Thomas G. Pypker	Hydrology/Geomorphology	Oregon State University	The role of epiphytes in the interception and evaporation of rainfall
Muthuramanan Rameswaran	Cell Biology/Biochemistry	Widener University	Is Atrazine an innate immune system disruptor in adult Northern Leopard Frogs (<i>Rana pipiens</i>)?
Megan M. Reese	Ecology	St. Cloud State University	Impact of marine reserves vs non-protected areas using otolith growth analy
Danielle R. Reis	Psychology	Florida Atlantic University	Learning Second Language Vocabulary: Evidence from American Students Learning French
Elena A. Repnikova	Cell Biology/Biochemistry	Texas A&M University-College Station	Investigation of bystander cell induction in low-LET irradiated human fibroblasts
Lynn J. Richter	Cell Biology/Biochemistry	Plattsburgh State University	Isolation and Sequencing of the Nitric Oxide Synthase Gene in <i>Paramecium tetraurelia</i>
Paul B. Rimmer	Physics/Astronomy	University of Colorado at Denver	Optical Imaging and Analysis of Selected Quasars and Quasar Jets

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Grant Recipient	Research Field	Institution	Study Title
Melinda D. Roberts	Physiology/Functional Morphology	Appalachian State University	Why Do Wildflowers Wilt in Saturated Soils? Are Hydraulic Insufficiencies the Cause?
Amelia C. Robinson	Paleontology/Sedimentation	University of California-Davis	Integrated Analysis of Organic Matter-Clay Mineral Relationships in Kaolinite-Rich Sediments: Implications for their Stability and Reactivity in Continental Margin Sediments
Lizzette A. Rodriguez	Petrology/Geochemistry	Michigan Technological University	SO2 conversion rates at Lascar volcano, Chile
Constance L. Rogers-Lowery	Physiology/Functional Morphology	Wake Forest University	Role of Skin Mucus Proteases in Acquired Resistance of a Host Fish to Ectoparasitic Glochidia Larvae of a Freshwater Mussel
Jason W. Ross	Physiology/Functional Morphology	Oklahoma State University	Analysis and Characterization of a Novel Gene During Porcine Embryo Development and Implantation
Jeffrey S. Ross-Ibarra	Systematics/Evolutionary Biology	University of Georgia	Genetics of tomatillo (<i>Physalis philadelphica</i>), a new model species for the study of domestication
Jason P. Roth	Cell Biology/Biochemistry	Utah State University	Detection of HPIV-3 Accessory Proteins
Sara J. Rotter	Psychology	University of Florida	Implicit and Explicit Retrieval of Spelling in Young and Older Adults
Joanna M. Rueth	Cell Biology/Biochemistry	University of Wisconsin-Madison	Sequence specific effects of nucleoside analogs on the Hepatitis C Virus
Mor Salomon-Botner	Behavioral Ecology	Ben-Gurion University of the Negev	The role of maternal care in the evolution of sociality in the spider genus <i>Stegodyphus</i> (Araneae, Eresidae)
Lisa M. Sanders	Cell Biology/Biochemistry	Texas A&M University-College Station	Oxidative environment of the colon vs small intestine: relationship to cancer susceptibility

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Soma Sarkar	Cell Biology/Biochemistry	University of North Carolina at Wilmington	Aerobic scope and lactate production in mice with an inherited capacity for hypoxic exercise
Sharmilee P. Sawant	Cell Biology/Biochemistry	University of Louisiana at Monroe	Molecular mechanisms of development of diabetes in type 2 diabetic rats
Erin A. Scheessele	Ecology	Oregon State University	Effect of Ultraviolet-B (UV-B) Radiated Food on Life History Traits of Amphibians
Anja M. Schiller	Ecology	Evergreen State College	The role of remnant trees in the restoration of abandoned pastures in Costa Rica
Brian K. Schilling	Physiology/Functional Morphology	University of Memphis	Myosin Heavy Chain Expression and Muscle Performance in Humans
Scott R. Schlossberg	Ecology	University of Illinois at Urbana-Champaign	Loss of an Ecosystem Dominant: Impacts on Animal Communities
R. B. Sears	Chemistry	Georgia Southern University	Investigation of Adenochrome: A Possible Iron Chelation Therapy Drug
Robert W. Senkiw	Behavioral Ecology	Unknown Institution	Contagious Communication in Black-Tailed Prairie Dogs (<i>Cynomys ludovicianus</i>): Do Individuals Test Their Neighbors' Awareness?
Maria A. Serrat	Anthropology	Kent State University	Variation in mammalian proximal femoral ossification patterns
Cristina M. Shafer	Psychology	Rutgers, The State University of New Jersey	Schemas of Asthma Management
Farbod Shafiei	Physics/Astronomy	Indiana University-Purdue University, Indianapolis	Near Field Scanning Optical Microscopy Based Apparatus to Measure Quantum Dots Mutual Interaction
Wesley K. Sherlock	Petrology/Geochemistry	Southern Oregon University	Biological and environmental impact of sulfide oxidation from mine tailings of the Blue Ledge Mine, Siskiyou County, California

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David H. Shimabukuro	Tectonics/Geophysics	University of California-Berkeley	Provenance study of Eocene-Oligocene fluvial gravels in the Great Basin: Implications for pre-extension paleogeography and syn-extensional drainage evolution
Ginny A. Short	Ecology	University of California-Riverside	Metapopulation Dynamics of the Western Burrowing Owl (<i>Speotyto cunicularia hypugaea</i>)
Deborah J. Silverman	Psychology	Brown University	Automatic Reading in the Periphery: Potential Rehabilitation Techniques for Macular Degeneration Patients
Ana K. Skemp	Behavioral Ecology	University of Arizona	Life History Tradeoffs between Learning and Senescence: Behavioral and Neuroanatomical Approaches
Mahew A. Smart	Cell Biology/Biochemistry	Merrimack College	A Molecular Basis For The Functional Differences in Cytochrome c Oxidase In Human Prostate Carcinoma Versus Control Epithelial Cells
David S. Smith	Physics/Astronomy	University of Texas at Austin	Cosmic Rays and the Mutational History of Habitable Planets
Jason Smucny	Cell Biology/Biochemistry	Amherst College	Role of Glutamate Receptor Trafficking in Horizontal Optokinetic Nystagmus in Frog
Adam J. Storch	Ecology	State University of New York College of Environmental Science and Forestry	Predator-Prey Interactions: Effects of an Exotic Invertebrate on Planktivore Consumption
Margaret A. Streeter	Anthropology	University of Missouri-Columbia	Histomorphometric characteristics of the sub-adult rib cortex: normal patterns of dynamic bone modeling and remodeling during growth and development

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Grant Recipient	Research Field	Institution	Study Title
Diego Sustaita	Physiology/Functional Morphology	California State University-Northridge	An Ecomorphological Comparison of Prey Handling and Feeding Capabilities of North American Hawks and Falcons
Erica A. Swenson	Systematics/Evolutionary Biology	Albertson College of Idaho	Characterization of Oak Associated Chanterelle Species Using Restriction Fragment Length Polymorphism Analysis of the nrDNA Internal Transcribed Spacer
Lina V. Taneva	Ecology	University of Illinois at Chicago	Responses of forest soil respiration to elevated CO ₂
Liang Tang	Engineering	University of Louisville	Real-time, Fiber Optic, Multi-analyte Immuno-biosensor for Accurate Anticoagulant Deficiency Diagnosis
Audrey R. Taylor	Ecology	University of Alaska Fairbanks	Pre-migratory habitat use and physiology of shorebirds staging on Alaska's North Slope
Suprawee Tepsuporn	Physiology/Functional Morphology	Mount Holyoke College	Strain-Specific Differential Gene Expression in a Mouse Model of AIDS Using DNA Microarrays
Thynn K. Thane	Cell Biology/Biochemistry	Northern Illinois University	The role of Antizyme Inhibitor in regulation of cellular polyamines
Cristituto P. Tomarong	Hydrology/Geomorphology	University of the Philippines	Unusually High Methane Gas Emissions in the Notorious Payatas Open Dump in Metro Manila, Philippines
Ayako J. Tomiyama	Psychology	University of California-Los Angeles	Dieting, stress, and obesity: Biological stress mediators
Ezequiel Treister	Physics/Astronomy	Yale University	A survey for obscured AGNs
Carolina Trochine	Ecology	Universidad Nacional del Comahue	The effect of Turbellaria and Hirudinea predators in north Patagonian piedmont and high altitude ponds
Matthew D. Truch	Physics/Astronomy	Brown University	To design and build a low-cost sun sensor for a balloon-borne telescope

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Candace M. Turner	Psychology	Washington College	The Relationship Between Testosterone and Cortisol Levels and Aggression in Male Children with ADHD
Shiva K. Tyagarajan	Cell Biology/Biochemistry	Pennsylvania State University	Examining the Role of JCV Proteins in Cellular Oncogenicity
Laura R. Vandiver	Anthropology	University of Missouri-Columbia	Gender, Perceptions of Harm, and Reported Substance Use Patterns in Alcohol and Marijuana Users in a Rural Caribbean Village
Briggs S. Venetia	Ecology	University of Miami	Sexual selection and larval performance of Neotropical frogs in the Chiquibul Forest Reserve, Belize
Jennifer L. Verdolin	Behavioral Ecology	State University of New York at Stony Brook	Variation in the social structure and mating system of Gunnisons Prairie Dogs
Maren N. Vitousek-Bemis	Behavioral Ecology	Princeton University	Finding the Right Man: Quantifying the Costs and Benefits of Female Mate Choice in the Galapagos Marine Iguana (<i>Amblyrhynchus cristatus</i>)
Rebecca J. VonDerHeide	Psychology	University of Massachusetts Dartmouth	ERP Correlates of Hemispheric Cooperation in Adults with ADHD
Julie B. Wahlstrand	Cell Biology/Biochemistry	Carleton College	Effects of Bisphenol A on Chromatin Remodeling of the Interferon-Gamma Promoter
Zachary N. Walke	Petrology/Geochemistry	Southern Oregon University	Possible left-lateral motion of Emigrant Lake Fault supported by associated intrusive dikes
Mutegi R. Wanja	Cell Biology/Biochemistry	Kenyatta University	Molecular Characterization of Transgenic Sweet Potatoes Following Genetic Transformation with Viral Coat Protein Genes
Daniel A. Warner	Systematics/Evolutionary Biology	University of Sydney	The adaptive significance of temperature-dependent sex determination in reptiles

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Kristy D. Wendt	Cell Biology/Biochemistry	University of Missouri-Columbia	Characterization of retinal degeneration in a mouse model of the Neuronal Ceroid Lipofuscinoses
Michael S. Wetz	Ecology	Oregon State University	Release of dissolved organic matter by coastal diatoms
Jessica H. Whiteside	Paleontology/Sedimentation	Columbia University	Magnitude and duration of a Triassic-Jurassic supergreenhouse
Jeremy A. Wickenheiser	Cell Biology/Biochemistry	University of California-Santa Barbara	An Identification and Investigation of CED-4 Mediated Apoptotic Suppressors in <i>Caenorhabditis elegans</i>
Pamela D. Widder	Behavioral Ecology	Oklahoma State University	Sub-Lethal Effects of Environmentally Relevant Levels of an Organophosphate Pesticide on Amphibian Larvae
Katherine R. Willcox	Cell Biology/Biochemistry	University of California-Riverside	Role of Threonine 55 Phosphorylation in Apoptosis
David R. Wilson	Behavioral Ecology	University of Manitoba	Ultrasonic communication in Richardson's ground squirrels (<i>Spermophilus richardsonii</i>)
John P. Wisniewski	Physics/Astronomy	University of Toledo	Searching for Circumstellar Disks Around Be Stars in Clusters
Stefan Woltmann	Ecology	Tulane University	Factors influencing local extinction of tropical understory forest birds in fragmented landscapes
Matthew D. Wood	Engineering	Saint Louis University	Electrical stimulation on patterned surfaces affects DRG neurite extension
Kerri M. Wrinn	Behavioral Ecology	University of Cincinnati	The effects of leg loss and regeneration on prey capture in wolf spiders
Julie M. Wu	Physiology/Functional Morphology	University of Maryland, College Park	Assessing the Clomiphene Citrate Challenge Test (CCCT) in Nonhuman Primates
Julie K. Young	Behavioral Ecology	Utah State University	Spatial ecology of coyotes

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Hilary C. Young	Anthropology	University of Calgary	Foraging of Cebus capucinus on Ant-Defended Acacia Trees in Costa Rica
Riqing Yu	Ecology	Louisiana State University-Baton Rouge	Metal Bioavailability of Natural Microbial Assemblage in Saltmarsh Sediment to Amphipod Leptocheirus plumulosus Influenced by Eutrophication
Sara R. Zimnavoda	Behavioral Ecology	Long Island University-C.W. Post Campus	Effects of the Environment on Diamondback terrapin Hatchling Behavior
Alfred J. Zullo	Cell Biology/Biochemistry	Purdue University-West Lafayette	BATF Transgenic Mice: Investigating the role of AP-1 in NKT cell development
Michael A. Zuykov	Petrology/Geochemistry	V.G. Khlopin Radium Institute	Distribution and behaviour of ²⁴¹ Am within shells of freshwater mollusks: a complex biomeralogical study