

Grants-in-Aid of Research Awards
March 15, 2002 Grant Cycle

Alphabetical by Recipient's Name

Grant Recipient	Research Field	Institution	Study Title
Markus Albertz	Tectonics/Geophysics	University of Southern California	The role of preexisting anisotropies on strain and deformation mechanisms associated with intrusion of the Tuolumne Intrusive Suite (TIS), California
Sarah Al-Tamimi	Ecology	University of Utah	Ecological determinants of host specificity
Kevin E. Amaya	Cell Biology/Biochemistry	University of California-Riverside	Increasing the efficacy of baculovirus biopesticides using a polydnavirus gene
Christopher B. Anderson	Ecology	University of Georgia	The impact of an invasive exotic ecosystem engineer on sub-Antarctic lotic ecosystems: the case of the beaver (<i>Castor canadensis</i>) in the Cape Horn Archipelago, Chile
Marc R. Anderson	Cell Biology/Biochemistry	University of North Carolina at Charlotte	Determination of Applicability of PCR for Detection of Genetically Modified Organisms Isolated from Environmental Soil and Water Samples
Andreas J. Andersson	Petrology/Geochemistry	University of Hawaii at Manoa	Calcification by coccolithophorids as an effect of pCO ₂ and nutrient concentrations, investigating the effect since the last glacial maximum until present and extending into the future
Rebecca L. Antworth	Cell Biology/Biochemistry	Simmons College	Are Glial Cells Required to Mediate Beta Amyloid Effects on Neuronal Transmitter Release?
James W. Armacost	Ecology	Illinois State University	Testing Predictions of the Unique Resources Hypothesis Using Amazonian River Island Birds
Todd A. Aschenbach	Ecology	University of Kansas	Testing Alternative Approaches to Tallgrass Prairie Restoration

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Andrey S. Avanesov	Ecology	Suffolk University	Re-evaluation of Maine's critical Invertebrate Areas in Cobscook Bay Complex
Naomi A. Balduff	Behavioral Ecology	Loma Linda University	Love 'em or Leave 'em? Mate-guarding Decisions by Male Rock Iguanas
Barbara E. Ballentine	Behavioral Ecology	Duke University	Does vocal performance influence reproductive success in swamp sparrows (<i>Melospiza georgiana</i>)?
Jonathan R. Barbour	Tectonics/Geophysics	Yale University	How the Alpi Apuane core complex lost its lid: Tectonic verses erosional exhumation in the northern Apennines (Italy)
Marfa L. Barreiro Arcos	Cell Biology/Biochemistry	Consejo Nacional de Investigaciones Científicas y Técnicas	Modulation of NOS expression by atypical PKC and its effect on T lymphoma proliferation
Chhandak Basu	Cell Biology/Biochemistry	University of Rhode Island	Microarray-Based Technology to Study Pathogen-Induced Gene Expression in Turfgrass
Regina S. Baucom	Systematics/Evolutionary Biology	University of Georgia	The Evolution of Herbicide Tolerance in Morning Glory
David J. Bauer	Physiology/Functional Morphology	University of Wisconsin-Milwaukee	Morphological Changes in the Prefrontal Cortex following Cerebellum Dentate Nuclei Lesions
Anthony J. Baumert	Ecology	University of Pittsburgh	Application of resource competition theory to ecosystem succession: towards a predictive, mechanistic, and trait-based explanation of broad scale patterns
Matthew T. Bealor	Behavioral Ecology	University of Colorado at Boulder	Behavioral Correlates of Dietary Specialization in Colubrid Snakes
Emina Begovic	Systematics/Evolutionary Biology	University of California-Berkeley	The Genetic Structure Of Stenotopic Patellogastropoda Species In Patchy Habitats: A Measure Of Susceptibility To Extinction

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Catherine M. Bencic	Anthropology	State University of New York at Binghamton	Prehistoric Urbanism And The Emergence Of Class Stratification: An Archaeological Study Of Stone Technology At Conchopata, Ayacucho, Peru
Lisa C. Benson	Engineering	Clemson University	Clinical Inputs for Total Knee Replacement Simulation
Sean T. Berthrong	Ecology	Bowie State University	Organic Nitrogen Cycling in a Southern New England Forest
Leanna M. Birge	Systematics/Evolutionary Biology	New Mexico State University	Con-population Sperm Precedence
Amy C. Blair	Ecology	Georgia Southern University	The Role of Evolutionary Processes in Biological Invasions
Karina Boege	Ecology	University of Missouri-St. Louis	Ontogenetic variation in plant resistance: consequences for herbivores and plants
Michael G. Booth	Ecology	Yale University	Do ectomycorrhizal networks counteract effects of root competition on juvenile tree species in temperate forests?
Marc A. Brackett	Psychology	University of New Hampshire	Gender Differences in the Expression of Emotional Intelligence in the Life Space
Alice M. Brylawski	Behavioral Ecology	University of Wisconsin-Milwaukee	The effectiveness of mate guarding as a paternity guard in house wrens
Reuben G. Bullard	Hydrology/Geomorphology	University of Cincinnati	Evolving Landscapes: Earthworks as a Model for the Morphologic Evolution of Natural Hillslopes
Emily J. Burke	Behavioral Ecology	James Madison University	How female barking treefrogs (<i>Hyla gratiosa</i>) use multiple call characteristics to select a mate
Jeremiah W. Busch	Systematics/Evolutionary Biology	Indiana University - Bloomington	Evolutionary Breakdown of Self-Incompatibility in <i>Leavenworthia alabamica</i>

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Craig D. Byron	Anthropology	Kent State University	Differential Locomotor Habits in Vietnamese Primates
Christina L. Calvin	Petrology/Geochemistry	New Jersey Institute of Technology	Possibility of a Mantle Superplume Event Near the Archean/Proterozoic Boundary: The Record in Platform Sediments in Southern Africa
Erin M. Campbell	Cell Biology/Biochemistry	Texas A&M University-Corpus Christi	Neisseria meningitidis causes apoptosis and necrosis of human macrophages
Polly Campbell	Ecology	Bowie State University	Ecological selection and adaptive variation in an Old World fruit bat species complex
Evangelina L. Capobianco	Physiology/Functional Morphology	Unknown Institution	Adaptation of islets of Langerhans to pregnancy and postpartum: modulatory pathways leading to beta-cell proliferation and beta-cell death
Ryan A. Carr	Behavioral Ecology	University of San Diego	Nest Relocation in the Costa Rican rainforest ant <i>Aphaenogaster araneoides</i>
Andia Chaves-Fonnegra	Ecology	Universidad de Bogota Jorge Tadeo Lozano	Evaluation the possible ecological roles of secondary metabolites of excavating sponges complex <i>Cliona aprica</i> - <i>C. langae</i> - <i>C. caribbaea</i>
Alex G. Cheroske	Behavioral Ecology	University of Maryland, Baltimore County	Stomatopod color vision and signaling in variable light environments
McCain D. Christina	Ecology	University of Miami	Plant-Animal Interactions and Plant Reproductive Success in Deforested and Continuous Forest Habitats of Amazonian Brazil
Elin M. Claridge	Systematics/Evolutionary Biology	University of California-Berkeley	Testing modes of diversification: <i>Rhyncogonus</i> weevils from the South Pacific

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Brian S. Cook	Tectonics/Geophysics	Virginia Polytechnic Institute and State University	Vorticity analysis of aureole deformation associated with emplacement of the Papoose Flat pluton, eastern California: an assessment and comparison of different analytical techniques
Amanda Cook	Paleontology/Sedimentation	University of Colorado at Boulder	Testing physical robustness of chitin to predict preservation potential of insects
Steven J. Cooke	Physiology/Functional Morphology	University of Illinois at Urbana-Champaign	Facilitating metabolic recovery of exhaustively exercised largemouth bass
Kevin A. Corcoran	Psychology	University of Michigan-Ann Arbor	Role of the Dorsal Hippocampus in Renewal of Conditional Fear After ExtinctionBouton
Cindy K. Cordery	Cell Biology/Biochemistry	Arizona State University	The infection process of Batrachochytrium dendrobatidis (Chytridiales)
Cintia Cornelius	Ecology	University of Missouri-St. Louis	Population genetic structure of three endemic insectivorous bird species (Furnariidae) in a fragmented south-temperate rainforest of Chile
Aurea d. Cortes-Palomec	Systematics/Evolutionary Biology	Ohio University	Reproductive System and Population Genetics of a Mexican Viola species Viola grahamii (Violaceae)
Elena M. Cristescu	Systematics/Evolutionary Biology	University of Guelph	Origin and Phylogeny of the Predatory Cladocera: Understanding Speciation in Ancient Lakes
Scott M. Crousillac	Physiology/Functional Morphology	Louisiana State University-Baton Rouge	Expression of TRP Channel Subunits in the Developing and Adult Chicken Retina
Deborah L. Cunningham	Anthropology	University of Missouri-Columbia	Postcranial proportional variation in Australopithecus
Andrew J. Cyr	Tectonics/Geophysics	Miami University Ohio	Stratigraphy and structure of the Oiyug Basin, south-central Tibet

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Andrew D. Czaja	Paleontology/Sedimentation	University of California-Los Angeles	Laser Raman Spectroscopic Analysis of Biochemical Changes Caused by Fossilization
James R. Dabrowski	Computer Science/Mathematics	University of Wisconsin-Milwaukee	Determination of the psychometric function for detection of delay in graphical user interfaces
Ellen I. Damschen	Ecology	North Carolina State University	Effects of landscape corridors on plant community composition and diversity
Tara L. Darcy	Ecology	Michigan State University	Species turnover across gradients in nutrients and predators: experimental studies of benthic algal communities
Edward B. Davis	Paleontology/Sedimentation	University of California-Berkeley	Mammalian evolution in the Miocene of Nevada; A test of the Turnover Pulse Hypothesis
Bradley L. Demarest	Systematics/Evolutionary Biology	University of Utah	Molecular Ecology of Pathogen Defense Genes in Birds
Jason D. Demers	Ecology	Cornell University	Mercury retention, methylation, and potential long-term export from wetlands of the Adirondack Region, New York
Michael K. DeSantis	Paleontology/Sedimentation	University of Cincinnati	A taphofacies model for Middle Cambrian trilobite assemblages from the Great Basin (Utah and Nevada) and southeastern Idaho
David W. DesRochers	Ecology	College of William and Mary	Avian Productivity on Created Tidal Wetlands in Southeast Virginia
Thomas J. Devitt	Systematics/Evolutionary Biology	Louisiana State University-Baton Rouge	The Genetic Consequences of Habitat Fragmentation on the Gopher Tortoise (<i>Gopherus polyphemus</i>) in the Longleaf Pine Ecosystem
Shawn P. Devlin	Ecology	Unity College	Geographic Variation in the Intertidal Snail, <i>Littorina littorea</i>

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Kara C. Donohue	Ecology	Boise State University	Differential migration and the linking of breeding and wintering grounds of Red-tailed Hawks
Joanne R. Dougherty	Ecology	Villanova University	The association between the coquina clam <i>Donax variabilis</i> and the hydroid <i>Lovenella gracilis</i>
Mark D. Driscoll	Ecology	University of South Florida	Use of Pulse Amplitude Modulated Fluorometry to investigate hydrodynamic influences of photosynthesis of the tropical alga <i>Caulerpa</i>
Andrew T. Dufresne	Cell Biology/Biochemistry	Duke University	Picornaviral expression vectors with improved genetic stability as vaccine candidates
Kanesa M. Duncan	Ecology	University of Hawaii at Manoa	Nearshore nursery use in the scalloped hammerhead shark, <i>Sphyrna lewini</i>
Kristy L. Duran	Systematics/Evolutionary Biology	University of Colorado at Boulder	The piñon pine dwarf mistletoe: effects of history and hosts
Andrew R. Dzialowski	Ecology	University of Kansas	RELATIONSHIPS BETWEEN BIODIVERSITY AND INVASION SUCCESS IN ZOOPLANKTON COMMUNITIES
Lisa M. Edwards	Psychology	University of Kansas	An Investigation of Factors that Contribute to Subjective Well-Being in Mexican-American Adolescents
Scott P. Egan	Ecology	Texas State University-San Marcos	Variation in host plant quality and demic adaptation as determinants of the abundance and distribution of a gall-forming herbivore
Jeremy R. Egbert	Physiology/Functional Morphology	Boise State University	Wing shape variation between western and eastern House Finches <i>Carpodacus mexicanus</i>

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Ingrid L. Ekstrom	Hydrology/Geomorphology	University of Wisconsin-Madison	Iron and oxygen response to air sparging BTEX-remediation in a geochemically heterogeneous groundwater system
Michele T. Falkner	Anthropology	Harvard University	Surface Histology of the Chin and its Implications in Human Evolution and Phylogenetic Reconstruction
Anuschka Faucci	Ecology	University of Hawaii at Manoa	Genetic population structure in relation to dispersal potential in Hawaiian vermetids
Deborah L. Finke	Ecology	University of Maryland, College Park	The role of predator diversity in mediating the occurrence of trophic cascades
Seth Finnegan	Paleontology/Sedimentation	University of California-Riverside	Dissecting the paleoecological signature of a major radiation in the Great Basin, western US: diversity and abundance patterns across an Ordovician shelf
Christine V. Fiorello	Ecology	Columbia University	Disease Ecology of Domestic and Wild Carnivores in Bolivia
Emily B. Fitzherbert	Ecology	University of East Anglia	An Assessment of the efficiency of the 'Umbrella species' concept within an East African National Park
Charles D. Fooce	Anthropology	Ohio State University	Perikymata Counts for South African Homo
Michelle A. Fry	Ecology	Northern Kentucky University	Investigating the Link Between a Dinoflagellate and Marine Head and Lateral Line Erosion on Brown sailfin tangs, <i>Zebrafoma scopas</i>
Takeshi Fukao	Cell Biology/Biochemistry	Texas A&M University-College Station	Quantitative trait loci analysis of flooding tolerance in <i>Echinochloa crus-galli</i> Beauv

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Kamal J. Gandhi	Ecology	University of Minnesota, Twin Cities	Effects of a Catastrophic Ecosystem Disturbance on the Biodiversity of Phloem- and Xylem-Dependent Forest Coleoptera
Todd R. Gardner	Ecology	Hofstra University	The copepod/Artemia tradeoff in the captive culture of Hippocampus erectus, a vulnerable species of seahorse in New York State
Neoma A. Geddes	Ecology	University of Louisiana at Lafayette	A Trophic Cascade in a Wetland Community
Nicole M. Gerardo	Systematics/Evolutionary Biology	University of Texas at Austin	Disease ecology of Escovopsis, a virulent co-evolved pathogen of fungus-growing ant symbioses
Nicole M. Gerlanc	Ecology	Kansas State University	Consequences of breeding habitat selection for population dynamics in a tallgrass prairie amphibian
Mónica N. Giacomodonato	Cell Biology/Biochemistry	Universidad de Buenos Aires	Participation of NF- κ B in the local immune response induced by attenuated mutants of Salmonella enteritidis
Roger B. Gomez	Petrology/Geochemistry	University of Iowa	A 10,000 Year to Present Record of Caribbean Precipitation and Vegetation:
Kristine L. Grayson	Ecology	Davidson College	Seasonal Body Temperature Variation in the Eastern Painted Turtle (<i>Chrysemys picta</i>)
Susan L. Guers	Ecology	Villanova University	Effects of forest fragmentation on the reproductive success of the Black-capped Chickadee in eastern Pennsylvania
Denise M. Guillot	Physiology/Functional Morphology	Bowie State University	A Comparative Analysis of the Locomotor Anatomy and Kinematics of Ateline Primates
Ashley A. Hagler	Cell Biology/Biochemistry	University of North Carolina at Charlotte	Viable But Not Culturable E coli in Urinary Tract Infections

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Mark F. Hausmann	Physiology/Functional Morphology	Iowa State University	How do long-lived birds delay senescence - development of appropriate models and techniques
Cinnamon J. Hayes	Ecology	Arizona State University	How Does the Neotyphodium Endophyte Influence Seed Predation by Seed Harvesting Ants?
Sarita Hebbar	Physiology/Functional Morphology	Miami University Ohio	The role of electrical activity during development of adult neuromuscular junctions in Drosophila
Loren M. Henagan	Systematics/Evolutionary Biology	Louisiana State University-Baton Rouge	A test of the balanced inversion model of speciation
Megan D. Hendren	Petrology/Geochemistry	University of South Florida	Li isotopes of the New Georgia Group Volcanics from the Woodlark Basin, Solomon Islands
Jennifer L. Hendry	Psychology	University of Southern Mississippi	The ontogeny of echolocation in an Atlantic bottlenose dolphin (<i>Tursiops truncatus</i>)
Jon E. Hess	Behavioral Ecology	Washington University in St. Louis	Population genetic study of the eusocial naked mole-rat, <i>Heterocephalus glaber</i>
Christine L. Hice	Ecology	Texas Tech University	Small mammal ecology in an extreme environment: the effects of seasonal flooding on Neotropical mammalian movement patterns
Anna G. Himler	Systematics/Evolutionary Biology	University of Texas at Austin	Speciation by cultivar switching in fungus-growing ants
John R. Hisey	Ecology	University of Memphis	Roamers or residents? A molecular assessment of mating tactics in male solitary mammalian carnivores
Larkin N. Hood	Anthropology	University of Washington	Relationships Between Hunter-Gatherer Residential Mobility Patterns And Diet : A Case Study From The Prehistoric Texas Gulf Coast

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Jason T. Hoverman	Ecology	University of Pittsburgh	The Impacts of Calcium on Predator-Induced Phenotypic Plasticity
Sarah K. Huber	Behavioral Ecology	University of Massachusetts Amherst	The origin and maintenance of song variation in Darwin's finches
Brenda R. Hunda	Paleontology/Sedimentation	University of California-Riverside	Event bed deposition in the Cincinnatian Series: Implications for assessing micro-evolutionary changes within Flexicalymene
Tracie M. Ivy	Behavioral Ecology	Illinois State University	Evolution of female multiple mating in decorated crickets (<i>Gryllodes sigillatus</i>)
Carolina O. Jaliffa	Cell Biology/Biochemistry	Universidad de Buenos Aires	Retinal oxidative stress induced by ocular hypertension
Jason E. Jannot	Ecology	Purdue University-West Lafayette	Resource allocation in caddisflies
Sumithra Jayaram	Physiology/Functional Morphology	Miami University Ohio	Inhibitory Effects of <i>Aloe barbadensis</i> against <i>Candida albicans</i>
Kathryn M. Jemmott	Anthropology	University of Florida	A three-dimensional morphometric approach to the analysis of phylogenetic relationships in the genus <i>Saguinus</i>
Mattias L. Johansson	Systematics/Evolutionary Biology	San Francisco State University	A Comparison of Gene Flow in Two Fish Species Near the Extremes of Their Geographic Range
Darren W. Johnson	Ecology	University of California-Santa Cruz	Evaluating the role of predators and habitat in generating density-dependent mortality of juvenile rockfish
Daniel E. Kahl	Behavioral Ecology	Appalachian State University	Comparative population densities of the mantled howler monkey (<i>Alouatta palliata</i>) in the tropical dry forests of Ecuador and Costa Rica

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Peter J. Kappes	Behavioral Ecology	York University	THE INFLUENCE OF UV REFLECTIVE PLUMAGE ON MATE CHOICE AND EXTRA-PAIRED FERTILIZATIONS IN THE AMERICAN REDSTART (<i>Setophaga ruticilla</i>)
Ron J. Karni	Cell Biology/Biochemistry	Baylor College of Medicine	Positron-emission tomography of vector-mediated gene expression in gene therapy for pancreatic cancer
Sally A. Kim	Cell Biology/Biochemistry	University of Texas Health Science Center at Houston	Dynamics of Calmodulin in Neurons
Brian T. Kirchner	Paleontology/Sedimentation	University of Cincinnati	Taphonomic Evaluation of Models for Storm-Dominated Sedimentation on a Siliciclastic-Carbonate Ramp: The Kope Formation (Cincinnatian Series), Ohio-Indiana-Kentucky
Lisa A. Kirkendale	Systematics/Evolutionary Biology	University of Florida	Windows of Opportunity: The evolution of photosymbiosis in bivalve molluscs
Lesley B. Knoll	Ecology	Michigan State University	Understanding zebra mussel impacts on toxic cyanobacterial blooms and vertical distributions of phytoplankton
James J. Kobie	Cell Biology/Biochemistry	University of Arizona	The effects of transforming growth factor-beta on the migratory and stimulatory ability of dendritic cells
Rama Konduri	Chemistry	University of Texas at Arlington	The Study and Development of Novel Ruthenium Dimer for Multielectron Storage and Photocatalysis
Robyn R. Konvalinka	Behavioral Ecology	Arkansas State University	Egg Discrimination in the Western Slimy Salamander, <i>Plethodon albagula</i>
Marlena Koper	Behavioral Ecology	Miami University Ohio	The role of hunger and its effect on the foraging behavior of the wolf spider <i>Pardosa milvina</i>

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Tanya Koropatnick	Cell Biology/Biochemistry	University of Hawaii at Manoa	Investigating the role of invertebrate chemokines in symbiont-induced light organ morphogenesis in the bobtail squid, <i>Euprymna scolopes</i>
Elissa B. Krakauer	Behavioral Ecology	Duke University	The response of infant aye-eyes (<i>Daubentonia madagascariensis</i>) to novel foods
Andrew Kulmatiski	Ecology	Dartmouth College	Testing the 'taproot advantage' hypothesis of weed success
Neela S. Kumar	Physiology/Functional Morphology	Miami University Ohio	Endogenous Auxin Distribution in Liverwort Shoot Apical Meristems
Michael R. Kushnick	Physiology/Functional Morphology	Florida State University	The Effects of an Acute Bout of Exercise on the Lipoprotein Profiles of Black and White American Men
Jade S. Lackey	Petrology/Geochemistry	University of Wisconsin-Madison	Monitoring Assimilation Processes in Felsic Magma Chambers with $\delta^{18}O$ of Zircon and Garnet
Kathryn A. Lafrenz	Anthropology	University of South Florida	Provenancing the elephant and hippopotamus ivory from the 14th century BCE Ulu Burun shipwreck
Jeffrey K. Lake	Ecology	University of Georgia	Ecological Impacts of Physiological Traits of Lianas
Andrew R. Lammers	Physiology/Functional Morphology	Ohio University	Ontogeny of arboreal locomotor biodynamics in <i>Didelphis virginiana</i>
Susan M. Lappan	Anthropology	New York University	Parental Care in the Primate Genus <i>Hylobates</i> : Energetic Costs of Infant Care and Male Reproductive Strategies
Kristin L. Latham	Cell Biology/Biochemistry	Oregon State University	Characterization of adult dorsal abdominal muscle orientation in <i>Drosophila melanogaster</i>
Jennifer C. Latimer	Petrology/Geochemistry	Indiana University - Bloomington	Phosphorus geochemistry: A proxy for productivity?

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Diana K. Latta	Tectonics/Geophysics	Lehigh University	High-resolution deformation rates determined from astronomically correlated Cretaceous cyclic carbonates, northeastern Mexico
Ronit Lavie	Behavioral Ecology	California State University-Northridge	Parasite-mediated sexual selection and the effects of turbidity on Green Swordtails, <i>Xiphophorus helleri</i>
Vaia Lestou	Psychology	University of Glasgow	The involvement of parietal areas in human imitation of arm movements
Mia T. Levine	Ecology	University of Illinois at Urbana-Champaign	Habitat- and host-dependent compensatory response to herbivory in the facultative hemiparasite <i>Castilleja linariifolia</i>
Jianli Li	Physiology/Functional Morphology	University of Louisville	Thalamic Diversity: A comparison of the membrane properties of relay cells within the lateral geniculate nucleus and the lateral posterior nucleus
Day B. Ligon	Physiology/Functional Morphology	Oklahoma State University	Testing the Adaptive Value of Temperature Sex Determination in Reptiles
So-Yon Lim	Cell Biology/Biochemistry	Indiana State University	The Regulation of Autoimmune anti-DNA response by Idiotype-specific Cytotoxic T-cells in BALB/c mice
Pallavi B. Limaye	Cell Biology/Biochemistry	University of Louisiana at Monroe	Assessment of gene expression using a custom designed gene array in newly divided hepatocytes following acetaminophen-induced liver injury
John D. Lloyd	Ecology	University of Montana	Habitat-specific growth rates: environmental constraint or local adaptation?

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Dagan A. Loisel	Systematics/Evolutionary Biology	Duke University	Evolutionary Genetics of the Major Histocompatibility Complex in Savannah Baboons (<i>Papio cynocephalus</i>)
Corene D. Luton	Ecology	University of Miami	Assessment of coastal plant community characteristics and reproductive and population dynamics of dominant species in distinct coastal segments of Eleuthera Island, Bahamas
Carrie A. MacKichan	Ecology	Georgia Southern University	Effect of ultraviolet light on newly settled coral recruits
Nancy J. Mahlen	Petrology/Geochemistry	University of Wisconsin-Madison	Paleogeographic and pre-collisional tectonic implications by determining provenance and geochronology of the UHP metasediments of the Zermatt-Saas ophiolite, western Alps
Noriko Makita	Systematics/Evolutionary Biology	Illinois State University	Does exposure to environmental mutagens and positive Darwinian selection increase nucleotide diversity of the antigen binding region of MHC
Alexei Maklakov	Behavioral Ecology	Ben-Gurion University of the Negev	Do females mate with multiple males to avoid costs of inbreeding imposed by social living?
Scott A. Mangan	Ecology	Indiana University - Bloomington	Do Neotropical rodents influence forest regeneration by dispersing spores of arbuscular mycorrhizal fungi?
Constantinos C. Mannouris	Systematics/Evolutionary Biology	Illinois State University	The impact of fragmentation on the evolutionary potential of populations of a native prairie plant species, <i>Chamaecrista fasciculata</i>

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Thomas G. Mast	Physiology/Functional Morphology	University of Cincinnati	Presynaptic dopamine inhibition modulates the spontaneous activity of olfactory bulb mitral/tufted cells
Robert L. Matchock	Psychology	Pennsylvania State University	Red Light Suppression of Nocturnal Salivary Melatonin Depends on Time of Day: Evidence for a Trichromatic Circadian Visual System and Evolutionary Implications
Clarissa R. Mathews	Hydrology/Geomorphology	University of Maryland, College Park	The Effect of Extrafloral Nectaries on Herbivory and Biological Control in Peach, <i>Prunus persica</i> (L) Batsch
Jill A. Maxwell	Cell Biology/Biochemistry	East Carolina University	Reovirus-Induced Apoptosis in Human Colon and Pancreatic Cancer Cells
Kathleen M. McAvoy	Ecology	Fairfield University	The effect of <i>Ilyanassa obsoleta</i> on the vertical distribution of the green alga <i>Enteromorpha</i>
Michael W. McCoy	Ecology	University of Florida	Occurrence and Consequences of Phenotypic Plasticity in Anuran Larvae
Brian J. McHugh	Cell Biology/Biochemistry	Villanova University	RING3 May Function in Neuronal Apoptosis Through Facilitating E2F-Regulated Gene Expression
Christiane I. Meyer	Behavioral Ecology	Princeton University	The effect of experience on decision-making of female green swordtails, <i>Xiphophorus helleri</i>
Alexander S. Mikheyev	Behavioral Ecology	Florida State University	Sexual Conflict and the Evolution of Polyandry in Fungus Gardening Ants
Cecelia M. Miles	Systematics/Evolutionary Biology	University of Florida	Life History Consequences of Selection for Egg Size in <i>Hydroides elegans</i> (Polychaeta: Serpulidae)
Ian M. Miller	Paleontology/Sedimentation	Yale University	Paleofloral tests for Baja BC

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Shane R. Miller	Ecology	University of Akron	The Effects of Local Abundance of <i>Lupinus Perennis</i> (Fabaceae) on Pollinator Visitation and Plant Reproductive Success
Lauren A. Milligan	Anthropology	University of Arizona	Quantity and Type of Fatty Acids and Immune Components in the Milk of the Rhesus Monkey
Jeff R. Mollenhauer	Behavioral Ecology	University of Southern Mississippi	The effects of arrival condition on the song and song-flight rates of male Bluethroats (<i>Luscinia svecica</i>)
William B. Monahan	Systematics/Evolutionary Biology	University of California-Berkeley	Utilizing an Historically Documented Founder Population of the House Sparrow to Predict and Test Microsatellite Mutation Rates
Jenna A. Monroy	Physiology/Functional Morphology	Northern Arizona University	Neuromuscular organization of the Microhylid frog tongue
Flavia A. Montano	Ecology	Universidad Mayor de San Andros	Anthropogenic Landscapes as Ecological Interaction Scenarios: Birds as Mistletoe Seed Dispersal Agents, at the Tunquini Biological Station (Parque Nacional Cotapata, La Paz, Bolivia)
Kailen A. Mooney	Ecology	University of Colorado at Boulder	Effects Of Birds On An Ant-Aphid Mutualism
Shannon B. Moss	Psychology	University of Southern Mississippi	The Effects of a Family Intervention on Compliance in In-Center Dialysis Patients
Chris A. Murdock	Physiology/Functional Morphology	University of Alabama at Birmingham	The Expression of SF-1 and Aromatase in the Developing Gonads of a Reptile with Temperature-Dependent Sex Determination
Jennifer C. Naylor	Psychology	Miami University Ohio	Ethanol and the Amygdala: A Serotonergic Phenomenon?

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Matthew A. Neatrou	Ecology	Virginia Polytechnic Institute and State University	Can fine root proliferation into phosphorus rich soil patches influence total ecosystem carbon allocation to fine roots?
Beth A. Nordby	Physiology/Functional Morphology	Temple University School of Medicine	Cytoprotective Effects Of rhCC-10: A Neonatal Lung Protective Strategy
Catherine T. Nordfelt	Systematics/Evolutionary Biology	Auburn University	Geographic variation of sound production in <i>Cyprinella galactura</i> , the whitetail shiner
Dale C. Norton	Anthropology	University of Southern Mississippi	William's Landing and Widow's Creek: Possible Protohistoric Sites in Northern Alabama
Douglas A. Nutter	Ecology	University of Chicago	Spatial effects on colonozation/extinction dynamics and community structure: An experimental approach using artificial tidepools
Catherine O'Hara	Anthropology	University of Cambridge	MHC Diversity and Reproduction in Wild Chimpanzees
Christopher R. Olson	Physiology/Functional Morphology	Iowa State University	Embryonic Development, Temperature and Parental Behavior During Avian Incubation
Simon J. O'Toole	Physics/Astronomy	University of Sydney	Time Resolved Observations of the pulsating sdB star PG1605+072
Frederick L. Page	Petrology/Geochemistry	University of Michigan-Ann Arbor	Thermobarometry and Lutetium V Hafnium Ages of Franciscan Eclogites and Amphibolites
Eric P. Palkovacs	Systematics/Evolutionary Biology	Yale University	Madagascar Is Microbats: Chance Colonizers or Long Distance Dispersers
Karie L. Pappani	Ecology	Idaho State University	Water hydraulically lifted by <i>Artemisia tridentata</i> : performance of <i>Agropyron cristatum</i> and <i>Stipa comata</i>

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Ann F. Paradis	Ecology	University of Nebraska at Lincoln	Molecular assessment of the host association of a biological control agent <i>Rhinocyllus</i>
Scott L. Parker	Ecology	Virginia Polytechnic Institute and State University	Testing the cold climate hypothesis: Is extended egg retention associated with increased in utero oxygen availability in the lizard <i>Sceloporus undulatus</i> ?
Jessica M. Pearce	Ecology	University of Utah	The Effect of Food Abundance on Hantavirus Transmission in Deermice (<i>Peromyscus maniculatus</i>)
Ryan M. Pelis	Physiology/Functional Morphology	University of Connecticut	Intestinal Regulation of Renal Sulfate excretion
Veronica Perez Rodriguez	Anthropology	University of Georgia	Household Intensification and Agrarian States: Excavation of a House and Terraced Field in a Mixtec Cacicazgo
Rachel J. Petrik-Finley	Ecology	University of Rhode Island	Developing a model to test host-parasite interactions
Andrew A. Pierce	Behavioral Ecology	University of Memphis	Does the quantity of dietary protein in the male affect female sexual receptivity?
Jennifer L. Pierce	Hydrology/Geomorphology	University of New Mexico	Holocene Variations in Fire Frequency and Sedimentation Rates in the Idaho Batholith: Implications for the Role of Climate Change in Controlling Fire Regimes
Allison C. Poff	Ecology	University of North Dakota	Factors that influence oviposition in the Goldenrod gall fly, <i>Eurosta solidaginis</i> (Diptera: Tephritidae)
Carolina Priester	Physiology/Functional Morphology	University of North Carolina at Wilmington	Mineralization pattern, ultrastructure and histochemical analysis of the ecdysial suture of the blue crab, <i>Callinectes sapidus</i>

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Marfa C. Pustovrh	Physiology/Functional Morphology	Centro de Investigacion Cientificia y de Educacion Superior de Ensenada	Alterations of matrix metalloproteinases during early placentation and fetal development in the diabetic pathology
Laurel E. Qualls	Petrology/Geochemistry	Syracuse University	Isotopic characterization of syntectonic and post-tectonic granites of the Anti-Atlas orogen: constraints on the extent of the West African Craton
Rhonda L. Quinn	Anthropology	Rutgers, The State University of New Jersey	Pleistocene mammalian migrations in the east Turkana basin, Kenya: testing the utility of stable strontium isotopes
Jennifer J. Quinn	Psychology	University of California-Los Angeles	Neurogenesis and Hippocampus-Dependent Fear Conditioning
Erin H. Radomske	Ecology	University of Northern British Columbia	Effects of DOC and nutrients on the microbial planktonic community structure
Jeffrey M. Rahl	Tectonics/Geophysics	Yale University	Does pressure solution deformation control the depth of the brittle-ductile transition? A case study on the high-pressure, low-temperature metamorphic rocks of Crete, Greece
Hajarimanitra Rambeloarivony	Behavioral Ecology	Ecole Normale Superieure Antananarivo	Evaluation of long-term change in the Berenty, Madagascar ecosystem
Floyd A. Reed	Systematics/Evolutionary Biology	Cornell University	Optimization and discrimination of background selection and hitchhiking predictions on the human X-chromosome
Aaron W. Reed	Ecology	Kansas State University	Seed use and availability in the prairies of central North America
Carl A. Reese	Ecology	Louisiana State University-Baton Rouge	Pollen Dispersal and Deposition on Tropical Andean Ice Caps: Quelccaya (Peru) and Parinacota (Bolivia)

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Tanya M. Rehse	Systematics/Evolutionary Biology	Duke University	Staminode Evolution and Development: From Bananas to Gingers
Adam M. Reitzel	Physiology/Functional Morphology	University of Florida	Optimizing Nutritional Efficiency: Morphological Plasticity of the Echinopluteus Digestive System
Timothy K. Revell	Behavioral Ecology	Loma Linda University	Sleep Duration in Lizards as a Function of Food Availability and Dietary Preference
Rose M. Reynolds	Systematics/Evolutionary Biology	University of Illinois at Urbana-Champaign	A Test of the Mutation Accumulation Theory of Aging
Marfa L. Ribeiro	Physiology/Functional Morphology	Centro de Investigacion Cientificia y de Educacion Superior de Ensenada	Regulation of EGF receptor by progesterone during pregnancy in rat
Stephen C. Richter	Ecology	University of Oklahoma	Annual variation in genetic structure of the only known population of dark gopher frogs, <i>Rana sevosia</i> Goin and Netting
Justin B. Ries	Paleontology/Sedimentation	Johns Hopkins University	Skeletal Mineralogy of Dominant Reef Building Fossils of the Paleozoic
Gabriel Rivera	Physiology/Functional Morphology	Old Dominion University	An examination of skin mechanics in <i>Thamnophis sirtalis</i> (Serpentes): analysis of properties associated with feeding on large-bodied prey
Kathleen A. Roberts	Behavioral Ecology	University of Louisiana at Lafayette	Ontogeny of satellite behavior in the green treefrog <i>Hyla cinerea</i>
Benjamin D. Rood	Cell Biology/Biochemistry	University of Massachusetts Amherst	Changes in gene expression in the brains of male prairie voles following exposure to pups
Erica B. Rosenblum	Systematics/Evolutionary Biology	University of California-Berkeley	Local adaptation, environmental gradients and the genetics of color variation in White Sands lizards
Corinna N. Ross	Systematics/Evolutionary Biology	University of Nebraska at Lincoln	Genetic Chimerism in Marmosets

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Lindsey C. Rowland	Behavioral Ecology	Miami University Ohio	Relationship of reproductive timing and climate change to the displacement of <i>Peromyscus maniculatus gracilis</i> by <i>Peromyscus leucopus noveboracensis</i>
Cristina M. Rumbaitis-del Rio	Ecology	University of Colorado at Boulder	Soil nutrient heterogeneity in a Wind-Disturbed and Salvage-Logged Subalpine Forest
Adam B. Safer	Systematics/Evolutionary Biology	Florida Institute of Technology	The Phylogenetic Distribution and Neuroanatomical Correlates of Infrared Imaging Capability in Snakes
Morgan J. Salisbury	Petrology/Geochemistry	Central Washington University	Magma mixing, recharge, and eruption histories recorded by the distribution and chemistry of plagioclase crystals from Lassen Peak Volcano, California
Gregory J. Sandland	Ecology	Purdue University-West Lafayette	Costs of aestivation and resistance in a trematode-snail system
Sarah E. Santee	Paleontology/Sedimentation	University of California-Davis	Climatic disturbance and global warming related to Mid-Cretaceous OAEs
Christine Schandorsky	Ecology	Miami University Ohio	Effects of forest fragmentation on the density and dispersal of white-footed mice (<i>Peromyscus leucopus</i>) using genetic techniques: a test of the [barrier to dispersal]± hypothesis
Daniel M. Scheiman	Ecology	Purdue University-West Lafayette	Effects of field quality on dispersal rates of Bobolinks: A metapopulation approach
Lisa M. Schile	Ecology	University of Louisiana at Lafayette	The effects of salinity stress on <i>Iris hexagona</i> and its leafminer, <i>Cerodontha iridiphora</i>

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Kareen E. Schnabel	Systematics/Evolutionary Biology	University of Guelph	Phylogenetics and phylogeography of arctic Peracarida - biodiversity and the origins of the Arctic Ocean
Miguel J. Schwartz	Ecology	Duke University	Spatial Patterning of Temperate Trees
Summer A. Scobell	Systematics/Evolutionary Biology	University of Miami	Geographic Variation of Dioecy in a Polyploid Cactus: Comparative effects of bees and hummingbirds on selfing rate and implications for the evolution of dioecy
Douglas G. Scofield	Systematics/Evolutionary Biology	University of Miami	Mitotic mutations and reproductive fitness in <i>Delonix regia</i>
Ashley W. Seifert	Physiology/Functional Morphology	University of Florida	Respiratory allocation and the standard rate of metabolism across ontogeny in the African lungfish <i>Protopterus aethiopicus</i>
Laura L. Shackelford	Anthropology	Washington University in St. Louis	Late Pleistocene postcranial fossils from Tam Hang, Laos
Hogan M. Sherrow	Behavioral Ecology	Yale University	Adolescent Male Chimpanzee Behavior at Ngogo, Kibale National Park, Uganda
Prerana Shrestha	Cell Biology/Biochemistry	Bates College	Characterization of 90kDa Ribosomal S6 Protein Kinase-1 (RSK-1) Activation, a Mediator of the ERK-MAP Kinase Cell Survival and Proliferative Signaling
Kathy J. Sifrit	Psychology	Wichita State University	Older Drivers' Performance and the Useful Field of View
Monica C. Silva	Systematics/Evolutionary Biology	University of Washington	Is there MHC-based mate choice in the Thin-billed Prion (<i>Pachyptila belcheri</i>)?
DTbora I. Sinner	Cell Biology/Biochemistry	Universidad de Buenos Aires	Modulatory effect of 15deoxy-delta 12,14prostaglandin J2 (15dPGJ2) on the embryonic lipid metabolism during the early organogenesis

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Denise Siraco	Engineering	University of Massachusetts Amherst	Phytoremediation of Petroleum Contaminated Soil Using Turfgrass
Charles F. Smith	Ecology	University of Connecticut	Effects of movement, habitat preferences, and field endocrinology on fitness in the northern copperhead snake, <i>Agkistrodon contortrix</i> <i>mokasen</i>
Crystal M. Smith	Paleontology/Sedimentation	Texas A&M University- Corpus Christi	Investigation of Transport of Radionuclides From Abandoned Uranium Mines to Watershed
Jennifer E. Smith	Behavioral Ecology	University of Illinois at Urbana-Champaign	The function of haypiles in the singing vole (<i>Microtus</i> <i>miurus</i>)
Youngsoo Son	Ecology	Virginia Polytechnic Institute and State University	The effect of <i>Wolbachia</i> infection on the reproductive biology of the black vine weevil (Coleoptera: Curculionidae): Does <i>Wolbachia</i> induce thelytokous reproduction?
Cascade J. Sorte	Ecology	Arizona State University	Are organisms more physiologically stressed near their range boundaries?
Jason M. South	Behavioral Ecology	University of Maryland, College Park	Effects of Resource Abundance and Logging on the Mating System of Bornean Treeshrews
Rachel B. Spigler	Ecology	University of Georgia	Consequences of Rarity on the Reproductive Success of Tropical Trees
Jeffrey J. Starns	Psychology	Louisiana State University- Baton Rouge	Perceptual Implicit Memory for Conceptually Activated Theme Words
Angela L. Strecker	Ecology	Laurentian University	The effects of an invasive invertebrate predator, <i>Bythotrephes longimanus</i> , on zooplankton communities in lakes recovering from acidification

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Wesley Sutton	Anthropology	New York University	A Y-chromosome study of a modern Mexican population
Alexander Y. Sweeney	Anthropology	University of South Carolina	The Search for Yamasee Components in South Carolina: An Examination of Identity Among Multiethnic Refugee Native Americans
Stephanie A. Tassier-Surine	Hydrology/Geomorphology	University of Iowa	Atmospheric Dust Loading, Loess Accumulation Rates, and Chronologic Constraints: An Investigation of Last Glacial Loess in East-Central Iowa
Laura A. Tedesco	Anthropology	New York University	Electron Microprobe Analysis and the Value of Precision in Characterizing the Composition of Archaeological Metal
Katherine C. Teeter	Systematics/Evolutionary Biology	University of Michigan-Ann Arbor	An analysis of the genetic basis of reproductive isolation in a house mouse hybrid zone
Andrew G. Tennyson	Chemistry	University of Chicago	A Study of Cationic Nickel-Oxygen Compounds
Alexandru M. Tomescu	Paleontology/Sedimentation	Ohio University	Characterizing an early terrestrial biota from the Early Silurian (Llandoveryian) Massanutten Sandstone of Virginia
Jill H. Torregiani	Ecology	University of New Hampshire	Susceptibility of <i>Pocillopora damicornis</i> Larvae to Ultraviolet Radiation: The Role of Mycosporine-like Amino Acids (MAAs)
Michelle Tseng	Ecology	Indiana University - Bloomington	The effect of parasitism on mosquito sex ratio and survival
Longobucco S. Valeria	Physiology/Functional Morphology	Universidad de Buenos Aires	Effects and mechanisms of periconcepcional alcohol ingestion on early embryo development in mouse Role of prostaglandine and vasoactive factors
Arie van der Meijden	Physiology/Functional Morphology	University of California-Irvine	Strike Kinematics of Scorpions

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Francois Vezina	Ecology	Simon Fraser University	Cost of egg production and energy management strategies in birds
Brian W. Viggiano	Paleontology/Sedimentation	University of California-Los Angeles	Tertiary Paleogeography and Depositional Environment of Punchbowl Formation, Devil's Punchbowl, California: Implications for Palinspastic Reconstruction
Laura L. Vines	Chemistry	University of Georgia	Rapid Prediction of Fat Content of Cereal Foods Using NIR Spectroscopy
Srinivas R. Viswanathan	Cell Biology/Biochemistry	Yale University	N-Linked Glycosylation may play an important role in the function of viral Interleukin-6 and affect its binding to the gp130 receptor subunit
Frederick W. Vogt	Paleontology/Sedimentation	University of Nebraska at Omaha	Paleoclimate Analyses Of A Late Cretaceous Flora From New Mexico Using Leaf Architecture
Ilonka S. von Lippke	Behavioral Ecology	University of California-Los Angeles	Evolution Of Social Behavior and Reproductive Skew in the Galapagos Mockingbirds
Shizuko Watanabe	Petrology/Geochemistry	Miami University Ohio	The Evolution of a Chemically Zoned Magma Chamber: the 1707 Eruption of Fuji Volcano, Japan
Thomas C. Watkins	Cell Biology/Biochemistry	Kent State University	Identification of Autoantigens in Autoimmune Rippling Muscles Associated with Myasthenia Gravis
Stuart W. Webb	Cell Biology/Biochemistry	University of California-Santa Barbara	Characterization of the Interaction Between Osteopontin and Integrin Heterodimers: Implications for Axonal Pathfinding in the Embryonic Mouse Retina
James R. Welch	Anthropology	Tulane University	Changing Subsistence Activities among the Jupa of Southwestern Amazonia

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Ian R. White	Tectonics/Geophysics	Western Washington University	Understanding contractional strain in an extensional realm: fault propagation folds in northeastern California
Veronica White	Physiology/Functional Morphology	Unknown Institution	Leptin on lipid metabolic alterations during diabetic pregnancy
Nicholas M. Whitney	Behavioral Ecology	University of Hawaii at Manoa	Site attachment and genetic population structure of the whitetip reef shark, <i>Triaenodon obesus</i>
Ralf Widenhorn	Physics/Astronomy	Portland State University	Charge diffusion in charge-coupled devices
Susan H. Williams	Physiology/Functional Morphology	Duke University	Symphyseal fusion in artiodactyls: An in vivo study of the biomechanics of masticatory form in goats and llamas
Jocelyn S. Williams	Anthropology	University of Calgary	An isotopic investigation of Inca diet and subsistence models using multiple tissues from mummified human remains
Kate E. Williamson	Behavioral Ecology	Ohio Wesleyan University	Study of the Microbial Community in the Plumage of Neotropical Migrants
Craig D. Wilmhoff	Ecology	University of Cincinnati	Experimental Determination of the Mechanism of Competition
Jacqueline A. Wilson	Ecology	University of Florida	Effects of stage-structured interactions and variation in habitat quality on reef fish dynamics
Bryce D. Wolcott	Physiology/Functional Morphology	University of California-Berkeley	Metabolic and mechanical scaling in scleractinian corals
Bob B. Wong	Systematics/Evolutionary Biology	Australian National University	Paternal genetic contributions to dominance, attractiveness and viability in the Pacific blue eye fish
Amber R. Wright	Systematics/Evolutionary Biology	University of Georgia	The Effect of Genetic Background on Stress Resistance in Transgenic Fruit Flies

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Carrie A. Wu	Systematics/Evolutionary Biology	University of California-Irvine	Genetic and ecophysiological variation among natural hybrids in an Ipomopsis (Polemoniaceae) hybrid zone
Matthew A. Wund	Behavioral Ecology	University of Michigan-Ann Arbor	The Role of Past Experience in Behavioral Plasticity
Carrie L. Yoder	Ecology	Louisiana State University-Baton Rouge	Community recovery following multiple disturbances of fire and flooding
David J. Young	Tectonics/Geophysics	University of California-Santa Barbara	Exhumation of Ultrahigh-Pressure Rocks - The Significance of Western Norway
Lauren M. Young	Ecology	University of Nebraska at Lincoln	Influence of native herbivores on the spread of a non-native thistle
Kimberly A. Young	Ecology	Fairfield University	Morphological defenses against spongivory in temperate sponges
Jill P. Zamzow	Ecology	University of Hawaii at Manoa	Possible effects of UV radiation on the zoogeography of tidepool fishes
Ann C. Zumwalt	Physiology/Functional Morphology	Johns Hopkins University School of Medicine	The effect of exercise on the morphology of muscle attachment sites