

Grants-in-Aid of Research Awards
March 15, 2001 Grant Cycle

Alphabetical by Recipient's Name

Grant Recipient	Research Field	Institution	Study Title
Bryn L. Adams	Ecology	University of North Carolina at Charlotte	The Viable but Nonculturable State in <i>Helicobacter pylori</i>
Holly M. Aldridge	Psychology	University of Southern Mississippi	Reducing psychological distress through writing about abuse versus writing about a positive experience
Lynn M. Almlı	Behavioral Ecology	University of Tennessee-Knoxville	Role of the dorsal and medial cortex in spatial memory in snakes
Helge Alsleben	Tectonics/Geophysics	University of Southern California	The southern margin of Paleozoic to Early Mesozoic North America - an unsolved tectonic puzzle
Julia A. Ambagis	Ecology	College of the Atlantic	Monitoring and Census Techniques for Leach's Storm Petrels (<i>Oceanodroma leucorhoa</i>)
Tonya R. Anderson	Cell Biology/Biochemistry	University of California-Los Angeles	Characterization of Pax6 Isoform Expression
Julie R. Angel	Anthropology	University of New Mexico	Now you see it, Now I don't: Comparison of Aerial Photogrammetrically Observed Vegetation Signatures With On-The-Ground Observations at Pueblo San Marcos, NM
Charles R. Ardoın	Tectonics/Geophysics	Central Washington University	Quaternary slip rates along the Panamint Valley fault zone, California
Jennifer M. Arnot	Tectonics/Geophysics	University of Wisconsin-Milwaukee	New insights into earthquake mechanisms from a comparative study of exposed paleo-earthquake faults in Norway
Trina L. Arpin	Anthropology	Bowie State University	Soil Micromorphology and FTIR Spectrometry Applied to the Early Neolithic of the Levant: Unraveling the Spatial Distribution of Activities and Social Organization
James D. Austin	Systematics/Evolutionary Biology	Queens University	Comparative phylogeography of two eastern North American anurans (<i>Rana catesbeiana</i> and <i>Pseudacris crucifer</i>)

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Amanda J. Baker	Ecology	Unity College	Evaluation of Ecological Risk of Biological Control of Weeds: A Look at the Impact of Two Leaf-Eating Beetles (<i>Galerucella</i> spp) on Native Wetland Plants
Tamatha R. Barbeau	Cell Biology/Biochemistry	University of Florida	Steroidogenesis in amphibians: An indicator of endocrine-disrupting contaminants in an aquatic ecosystem
Jessica A. Barkas	Ecology	Western Washington University	Effects of an exotic bivalve on two established bivalve species in Puget Sound, WA
Russell K. Barrett	Ecology	Southwest Missouri State University	Lizards as indicators of the effect of allochthonous input on species density and diversity on desert islands
Jennifer S. Beer	Psychology	University of California-Berkeley	Social Functions of the Orbitofrontal Lobes
Jeffrey A. Bell	Behavioral Ecology	North Dakota State University	Comparison of Two Acoustical Signals in Downy and Hairy Woodpeckers
Pamela L. Belmonte	Psychology	Bowie State University	The role of the parietal lobe in temporal and spatial attention
David C. Benner	Tectonics/Geophysics	University of California-Davis	A study of incremental strain geometry based on Quaternary faulting and seismic focal mechanism inversions for the Coso Range, Inyo County, California
Tiffany A. Bensen	Ecology	University of California-Davis	The effects of host plant diversity on tritrophic dynamics and an insect herbivore population
Tessa C. Bent	Psychology	Northwestern University	Generalization of Auditory Training with Speech and Non-Speech Stimuli
Peter B. Berendzen	Systematics/Evolutionary Biology	University of Minnesota, Twin Cities	Evolutionary Patterns of Duplicate Genes in North American Suckers (<i>Catostomidae</i>)

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Lisa L. Berrios	Paleontology/Sedimentation	Smith College	Evaluating the Potential of Using Oxygen Isotope Composition of Calcareous Serpulid Worm Tubes as Paleoenvironmental Indicators
William G. Billotte	Cell Biology/Biochemistry	University of Dayton	Fluid Shear Stress induced Differentiation in Human Osteoprogenitor Cells
Karina Boege	Ecology	University of Missouri-St. Louis	Ontogenetic variation in plant resistance: consequences for the balance between bottom-up and top-down forces affecting herbivores and plants
Tammy L. Bosler	Physics/Astronomy	University of California-Irvine	Ca II: A Better Age Indicator
George E. Bowker	Ecology	Duke University	The role of electrostatic forces in wind pollination
Melissa A. Boysun	Tectonics/Geophysics	University of Southern California	The origin of the Swakane migmatitic terrane: Implications for decompression melting and melt collection and transport in continental arcs
Gabriel B. Brammer	Physics/Astronomy	Williams College	Search for Fast Oscillations in the Solar Corona at the Total Eclipse in June, 2001
Phillip S. Brautigam	Ecology	University of Pittsburgh	Physiological mechanism for intraspecific competition
Jennifer L. Brostek	Psychology	University of Oklahoma	Competitive food storage in least chipmunks
Joanna M. Brown	Physics/Astronomy	Swarthmore College	Chemistry in Late Type Stars
Elizabeth D. Brusati	Ecology	University of California-Davis	Does introduced smooth cordgrass facilitate introduced invertebrates?
Catherine E. Burns	Ecology	Yale University	Investigating the impact of habitat loss on small mammals: Insights from a dynamic, life-history based approach
Sande A. Burr	Paleontology/Sedimentation	Cornell University	Are there proxies for environmental stress in living and fossil reef-building corals?

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Christina M. Butzer	Tectonics/Geophysics	University of Arizona	Paleomagnetic Investigation of Cretaceous plutons from the Prince of Wales Island, Southeastern Alaska
Erin N. Cable	Physiology/Functional Morphology	University of Arkansas at Fayetteville	Identification of Competitive Characteristics in red rice
Polly Campbell	Systematics/Evolutionary Biology	Bowie State University	The effects of environmental change on population genetic structuring in the lesser dog-face fruit bat <i>Cynopterus brachyotis</i> in peninsular Malaysia
Sarah D. Carnegie	Anthropology	University of Alberta	Endocrine and behavioral interrelationships: reproductive behavior in male and female white-faced capuchins (<i>Cebus capucinus</i>)
Carla B. Carr	Systematics/Evolutionary Biology	University of North Texas	Montane mammals of the colorado plateau: factors affecting species richness
Carrie A. Carretero	Physiology/Functional Morphology	Northern Arizona University	Relating Form to Function: Using the Jaw Apparatus of Frogs as a Model System
Eric D. Carter	Ecology	University of Wisconsin-Madison	Social-Environmental Dynamics of Malaria Eradication in Northwest Argentina, 1900-present
Ayesha D. Carter	Cell Biology/Biochemistry	Virginia Polytechnic Institute and State University	Inhibition of XChk1 Results in a Maternally Regulated Program of Apoptosis
Mario e. Castellanos	Cell Biology/Biochemistry	University of Houston	Characterization of the Amino Acid Editing Mechanism within <i>E. coli</i> LeuRS
Alexis S. Chaine	Behavioral Ecology	University of California-Santa Cruz	Sexual Selection, Signaling, and Plumage Variation in Lark Buntings, <i>Calamospiza melanocorys</i>
Stylianios Chatzimanolis	Systematics/Evolutionary Biology	University of Kansas	The evolution of coloration in <i>Nordus</i> (Insecta: Coleoptera: Staphylinidae)

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Kai-Jung Chi	Physiology/Functional Morphology	Duke University	Compressive and shear properties of isolated footpads of domestic cats and dogs
Katy C. Chiu	Chemistry	University of California-San Diego	The Essential Interaction Between the Ribosome and P Site Bound tRNA During Translocation
Sara M. Chmura	Petrology/Geochemistry	State University of New York at Buffalo	Comparative Detailed Mapping of Contrasting Types of Migmatite, Central Maine belt, Roxbury area, western Maine
Helen Cho	Anthropology	University of Missouri-Columbia	Age-associated bone loss in an Imperial Roman population: An histological analysis of inter- and intra-skeletal variability
Charles N. Ciampaglio	Paleontology/Sedimentation	Duke University	The Effect of Ecological Influences upon Morphological Innovation on Two Widely Separated Ordovician Faunal Communities
Jaclyn Cockburn	Hydrology/Geomorphology	Queens University	Quantifying hydrometeorological events recorded in varved sediments: image analysis and detailed sedimentology
Jonathan H. Cohen	Behavioral Ecology	Duke University	The control of diel vertical migration in marine copepods by aminosugar kairomones derived from fish mucus
Alicia J. Colson	Anthropology	McGill University	The Question of the Complex Image
Patricia L. Crotwell	Systematics/Evolutionary Biology	University of South Dakota	Developmental Patterning Mechanisms Underlying Skeletal Segmentation in the Zebrafish, <i>Danio rerio</i>
Jennifer M. Cruse	Systematics/Evolutionary Biology	University of Georgia	Genetic Diversity and Reproductive Biology Among <i>Stenocereus stellatus</i> (Cactaceae) Populations Under a Mosaic of Management Intensities in Central Mexico

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Sorcha M. Cusack	Cell Biology/Biochemistry	Boise State University	The Role of MeCP2 in Neuronal Differentiation of the Visual Pathway
Vionette De Choudens-Sanchez	Petrology/Geochemistry	University of Iowa	Controls on Aragonite/Calcite Precipitation and the Magnesium Incorporation into the Calcite Structure
Jason A. DeCaro	Anthropology	Emory University	Economic Anxiety, Childhood Reactivity, and Well-Being
Samantha A. DeCouto	Physiology/Functional Morphology	Miami University Ohio	Regulation of p75/trkA receptor expression by sympathetic neurons: the role of pre-ganglionic input
Bahar Deler	Engineering	Northwestern University	Development of a Comprehensive Input-Modeling Framework: Representing, Fitting, and Generating Multivariate Time Series with Arbitrary Marginal Distributions and Autocorrelation Structures
Michael E. Dillon	Physiology/Functional Morphology	University of Washington	The Ecophysiology of Insect Flight at High Altitude
Christopher T. DiVittorio	Ecology	University of California-Berkeley	Dispersal, disturbance colonization, and native species persistence in a spatially structured California grassland
Michael D. Dodd	Psychology	University of Toronto	Allocating Visual Attention to Grouped Objects
David M. Donnell	Physiology/Functional Morphology	University of Arizona	Amino Acid Transport in the eggs of Encarsia pergandiella (Hymenoptera: Aphelinidae)
Elise K. Donnelly	Behavioral Ecology	Wake Forest University	Endocrinological Basis for Siblicide in Nazca boobies
Shannon G. Donovan	Cell Biology/Biochemistry	University of Rhode Island	The evolution of cellulose synthesis and vascular differentiation
Caleb W. Dorsey	Cell Biology/Biochemistry	Miami University Ohio	Characterization of Siderophore Transport Proteins in the Human Pathogen Acinetobacter baumannii

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Heidi M. Dowd	Petrology/Geochemistry	University of Iowa	Comparative carbon isotopic chemostratigraphy of the Middle Pennsylvanian Pawnee and Upper Pennsylvanian Iola cyclothems: Assessing the potential for a Pennsylvanian chemostratigraphy
Natalie S. Dubois	Behavioral Ecology	Michigan State University	Mate choice, mate attraction, and parental care in the house wren: male and female investment in reproductive effort
Ryan M. Dunham	Ecology	Idaho State University	The role of mycorrhizae in the phosphorus nutrition of wetland plants <i>Caex nebrascensis</i> and <i>Typha latifolia</i>
Kristy L. Duran	Systematics/Evolutionary Biology	University of Colorado at Boulder	Population Structure of the Dwarf Misteltoe, <i>Arceuthobium divaricatum</i> , and its Host, <i>Pinus edulis</i>
Jennifer A. Elder Brady	Tectonics/Geophysics	Rutgers, The State University of New Jersey	Small-scale Structures as Signatures of the Tectonic History in the Fundy Rift Basin, Canada
Maie H. El-Sourady	Cell Biology/Biochemistry	University of North Carolina at Chapel Hill	Investigation of the Localization and Activation of Acyl-CoA Synthetase
David J. Emry	Ecology	University of Kansas	Direct and Indirect Control of <i>Uropyxis petalostemonis</i> Infection on <i>Dalea candida</i> in a Native Tallgrass Prairie
Rafael A. Ferreyra	Engineering	University of Florida	Using a spatial soil water movement model to improve the accuracy of crop simulation model predictions in precision agriculture
Janna L. Fierst	Ecology	California State University-Northridge	Spatial Scale Patterning in <i>Mastocarpus papillatus</i>
Heidi M. Fisher	Behavioral Ecology	University of California-San Diego	The role of chemical communication in the mate choice of the pygmy loris, <i>Nycticebus pygmaeus</i>

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Paul C. Fitzgerald	Systematics/Evolutionary Biology	University of California-Davis	Evolution of Clades within the Terebratulid Brachiopods
Tara M. Fitzhenry	Ecology	University of South Carolina	Mussel gaping: Is it a function of temperature?
Shannon L. Fowler	Physiology/Functional Morphology	University of California-Santa Cruz	Ontogeny of Diving Physiology and Behavior of Australian sea lions
Carol J. Frey	Anthropology	University of Washington	Prehistoric Environmental Impacts: Herders of the Southern Cape, South Africa
Celeste M. Gagnon	Anthropology	University of North Carolina at Chapel Hill	The Effects of Prehistoric State Formation on Daily Activities in the Moche Valley of Peru
Irene L. Garcia	Behavioral Ecology	Swarthmore College	The Thermal Life of Fiddler Crabs
Geoffrey H. Garrison	Petrology/Geochemistry	University of Hawaii at Manoa	A study of land use and climate change impacts on the aquatic geochemistry and sedimentation in a Hawaiian coastal basin
Aaron J. Gassmann	Ecology	State University of New York at Stony Brook	Effects of an Herbicide-resistance Mutation on Allocation to Growth and Chemical Defense
Stephen T. Gee	Cell Biology/Biochemistry	Medical University of South Carolina	Transcriptional Regulation of PEDF under Hypoxic Conditions
Andrew D. Gerschutz	Ecology	University of North Carolina at Chapel Hill	Allozyme analysis of the evolution of weedy Coastal Plain species from granite outcrops in the Piedmont of the southeastern United States
Mark B. Goodwin	Petrology/Geochemistry	University of California-Davis	Effects of the Burial Environment on Oxygen Isotope Composition in Dinosaur Bone
Jane B. Gore	Psychology	Georgia Southern University	Memory and Aging: Enhancing Effects of Physiological Arousal
Jacqueline B. Grant	Systematics/Evolutionary Biology	Cornell University	Examination of Evolutionary Trends in an Ambystomatid Salamander Using Mass Spectrometry

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Jason S. Grear	Ecology	Yale University	Explaining the causes of animal aggregation using movement analysis of a forest fungivore
Mark D. Green	Anthropology	Indiana State University	Correlating Ancient Site Locations with Geophysical Resources on the Karak Plateau (West-Central Jordan) Using Multispectral Satellite Imagery and Geographical Information Systems
Kendra J. Greenlee	Physiology/Functional Morphology	Arizona State University	Effects of body size on insect respiration
Katherine H. Grobman	Psychology	Pennsylvania State University	The Origins of Domain General Problem Solving
Carla G. Guthrie	Ecology	University of Texas at Austin	Dispersal in a Spatially-Structured Hispine Beetle (<i>Cephaloleia puncticollis</i>) Population: Implications for Community Assembly
Daniel R. Hahn	Ecology	University of Washington	Community and ecosystem impacts of an invasive intertidal eelgrass, <i>Zostera japonica</i>
Jennifer C. Hall	Cell Biology/Biochemistry	University of Colorado at Denver	Regulated proteolysis of the error-prone DNA polymerase UmuD'C
Catrina M. Hamilton	Physics/Astronomy	Wesleyan University, Connecticut	A Search for Rotation Periods of Stars in NCG 6934
Darcy L. Hannibal	Anthropology	University of Oregon	The relationship of food properties and incisor use to incisor morphology
Steven E. Hanser	Ecology	Idaho State University	Are effects of habitat fragmentation on small mammals confounded by habitat degradation?
Britta D. Hardesty	Ecology	University of Georgia	A genetic approach to determining seed dispersal of a tropical tree, <i>Simarouba amara</i>

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April Harris-Britt	Psychology	University of North Carolina at Chapel Hill	Students' Negative Experiences with Peers: An assessment of prevalence and coping responses in predicting school maladjustment
Jason L. Heaton	Anthropology	Indiana University - Bloomington	Taxonomic analysis of non-hominid primate remains from the Sterkfontein hominid site, Member 2 (Gauteng Province, South Africa)
Matthew R. Helmus	Behavioral Ecology	University of Central Arkansas	What Characteristic of Milkweed Latex Triggers Vein Severance by Monarch Caterpillars?
Stephanie J. Hequembourg	Physiology/Functional Morphology	University of North Carolina at Wilmington	Patterns of Calcite Nucleation in the Exocuticle of the blue crab, <i>Callinectes sapidus</i>
Ryan I. Hill	Behavioral Ecology	University of Texas at Austin	Adaptive Coloration and Light Habitat Use By Aposematic Butterflies
Steven L. Hobbs	Cell Biology/Biochemistry	University of Colorado at Boulder	Beta-Amyloid Production in Kokanee Salmon: A model for Alzheimer's Disease
Jon D. Hoekstra	Ecology	University of Illinois at Urbana-Champaign	Contrasting the functional roles and effects of native and invasive populations of a lotic crayfish
Gregg G. Hoffman	Physiology/Functional Morphology	University of North Carolina at Wilmington	Differential Display of mRNA's expressed in the hypodermis of the blue crab, <i>Callinectes sapidus</i> , during ecdysis
Cindy I. Hogan	Behavioral Ecology	University of North Carolina at Chapel Hill	Coordination of Parental Feeding Through Vocal Cues in the Carolina Wren
John M. Hora	Petrology/Geochemistry	University of California-Los Angeles	Timing of magma recharge and assimilation, Ngauruhoe Volcano, New Zealand
Kristin H. Horn	Cell Biology/Biochemistry	Indiana University School of Medicine	The role of reactive oxygen species in ethanol-induced cerebellar granule cell death

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Christopher J. Houck	Tectonics/Geophysics	Western Washington University	Structure and metamorphic evolution of the Chism Creek Schist, Central Coast Belt, South-central British
Gregory R. Houseman	Ecology	Michigan State University	Regional vs local control of species diversity: influence of site fertility
David C. Housman	Physiology/Functional Morphology	University of Nevada-Las Vegas	Nutrient resorption efficiency and proficiency of desert shrubs grown under elevated CO ₂
Nickolay I. Hristov	Behavioral Ecology	Wake Forest University	Acoustic Interaction Between Insectivorous Bats and Arctiid Moths
Laura L. Hughes	Systematics/Evolutionary Biology	Bowling Green State University	Leishmania infantum and the Pharaoh Hound: A Possible Case of Coevolution?
Kimberly E. Hunt	Behavioral Ecology	University of California-San Diego	Effects of an urban habitat on song transmission
Tran T. Huynh	Paleontology/Sedimentation	University of Southern California	Paleoecology of Mesozoic Marine Radiation in the Western United States
Jon-Philippe K. Hyatt	Physiology/Functional Morphology	University of California-Los Angeles	Neural influence on MyoD and Myogenin mRNA and protein expression in skeletal muscle
Dena E. Hyman	Behavioral Ecology	University of Miami	Cryptic female choice in the Florida Queen butterfly, Danaus gilippus berenice
Cameron A. Irvine	Chemistry	Wright State University	The Influence Of Colloid-Bound And Dissolved Phases Of Metals And Organic Contaminants To The Toxicity Of Freshwater Invertebrates
Carolina O. Jaliffa	Cell Biology/Biochemistry	Universidad de Buenos Aires	Analysis of the involvement of glycosaminoglycans in the physiopathogenesis of glaucoma
Baoming Ji	Ecology	Tulane University	Analysis of PLFAs to Identify Atmospheric Methane Oxidizers in forest soil

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James C. Johnson	Behavioral Ecology	University of Kentucky	Pre-copulatory sexual cannibalism in fishing spiders: an evaluation of the adaptive foraging hypothesis
Brian R. Johnson	Behavioral Ecology	Cornell University	The organization of work in honeybee colonies: how labor is reallocated when forage changes
Benjamin D. Johnson	Physics/Astronomy	University of California-Los Angeles	H _α Absorption in the Low Mass X-ray Binary Sco X-1
Emily L. Jones	Anthropology	University of Washington	Climate, Technology, and Resource Depression: Human-Environmental Impacts at the Pleistocene-Holocene Boundary
Longin T. Kaczmarek	Ecology	Long Island University	Quantitative analysis of a chronic sewage problem on a Caribbean coral reef: Short-term coral disease analysis and long-term monitoring of coral disease, recruitment, and community structure
Sonya M. Kahlenberg	Anthropology	Harvard University	The Socio-ecology of Male Aggression against Females in Wild Chimpanzees
Michael A. Kennedy	Anthropology	University of California-Davis	An Investigation of Hunter-Gatherer Resource Intensification Using the Stable Geochemistry of Archaeological Invertebrates
Coleman W. Kennedy	Ecology	University of California-Berkeley	Comparative ecology of <i>Miconia calvescens</i> in its native and introduced ranges
Heyward M. Key	Paleontology/Sedimentation	University of North Carolina at Wilmington	Effect of Muricid Gastropod Predation on Escalation in Bivalves through the Neogene
Paul D. Kieffaber	Psychology	Indiana University - Bloomington	Psychophysiological and Neuropsychological of Shifting Task-Set
Rebecca L. Kihslinger	Behavioral Ecology	University of California-Davis	Magnetic Orientation in an Elasmobranch Fish

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Erin E. Klauk	Petrology/Geochemistry	State University of New York at Buffalo	Strain in naturally deformed conglomerate of the Silurian Rangeley Formation in western Maine: a study to quantify the strain record
Jeffrey A. Klemens	Ecology	University of Pennsylvania	Niche differentiation and morphological plasticity in tree seedlings of tropical dry forest
Nancy R. Kohn	Behavioral Ecology	Saint Louis University	Fine Scale Discrimination in <i>Poecilia reticulata</i>
Kimberly D. Kosick	Ecology	Clemson University	The Effects of Metals on Sodium Balance in <i>Daphnia magna</i>
Miroslav Kummel	Ecology	University of Michigan-Ann Arbor	Do plants selectively associate with species of ectomycorrhizal fungi that support highest plant growth and resource acquisition in each environment?
Matthew P. Kweskin	Behavioral Ecology	University of Texas at Austin	Symbiont competition in an ant-fungus mutualism
Hyun J. Kwon	Engineering	University of Louisville	Real-time Detection of Cardiac Troponin T using Fiber-Optic Immunosensor
Nancy E. LaFleur	Ecology	University of Connecticut	Interactions of Invasive Species in an Avian Seed Dispersal System
Karen D. Laughlin	Ecology	Cornell University	Virus Resistance in Wild Plant Populations: Transgenic Plants as a Tool for Understanding Plant-Virus Dynamics
Amy L. Lawton-Rauh	Systematics/Evolutionary Biology	North Carolina State University	Molecular evolution and population genetics of a recent gene fusion in the Hawaiian silversword alliance
Brian W. LeCompte	Engineering	Auburn University	Enhancement of Thermal Conductivity by Introduction of Nanoparticles
Amorah V. Lee	Ecology	Western Washington University	Chemical Anti-herbivore Defenses of <i>Ulvaria obscura</i>

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Melvin Leok	Computer Science/Mathematics	California Institute of Technology	Multisymplectic Integrators for Fluid Dynamics
Mark E. Lesh	Paleontology/Sedimentation	Purdue University-West Lafayette	Neogene Basin Development Along the Reactivated Alaska Range Suture Zone
Gayle M. Levy	Paleontology/Sedimentation	University of Georgia	The Influence of Environmental Change: The Brachiopod <i>Sowerbyella Rugosa</i> in the Upper Ordovician Kope Formation of the Cincinnati Ohio Area
Patrick J. Lewis	Anthropology	Duke University	Variability in the Molars of Fossil Primates from the Fayum Depression of Egypt
Jianli Li	Physiology/Functional Morphology	University of Louisville	Synaptic organization of the medial division of the cat lateral posterior nucleus: insight into blindsight?
Wei Li	Ecology	Tufts University	Inbreeding Depression and Inbreeding Avoidance in the Marine Gastropod <i>Crepidula convexa</i>
Junghwa Lim	Cell Biology/Biochemistry	Virginia Polytechnic Institute and State University	NO synthesis in <i>Anopheles</i> : Plasmodium contribution and defense
Cynthia M. Liutkus	Paleontology/Sedimentation	Rutgers, The State University of New Jersey	Stable isotope signatures of wetland carbonates from closed-basin systems; a new model for interpretation
Joseph P. Lopez	Cell Biology/Biochemistry	Vanderbilt University	Modulation of Mycobacterial Trafficking by Surfactant Protein A
Katherine E. Lynch	Psychology	Columbia University	Remembering and Knowing with High Confidence
James H. MacDonald	Tectonics/Geophysics	University at Albany	The Baja BC Hypothesis and its Relationship to the Mount Stuart Batholith
Nancy J. Mahlen	Petrology/Geochemistry	University of Wisconsin-Madison	Provenance of subducted ocean sediments in the UHP terrains of the Western Alps

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Satya K. Maliakal	Ecology	Louisiana State University-Baton Rouge	Comparative demographic performance of habitat-generalist and habitat-specialist plant species among microhabitats: does microhabitat specificity determine plant distribution among habitats?
Gabriela M. Martinez	Physiology/Functional Morphology	University of New Hampshire	Embryonic Development of Squid Mantle and Funnel Muscles Development and
Wendy A. Marussich	Ecology	Arizona State University	Do plant compounds induce seed-carrying behaviors in ants?
Niquole K. May	Cell Biology/Biochemistry	University of Michigan-Ann Arbor	Effect of Fatty Acids on PPAR-gamma Mediated Apoptosis in Breast Cancer Cells
Benjamin J. McCall	Physics/Astronomy	University of Chicago	Spectroscopic Observation of H3+ in Classical Diffuse Clouds
Katherine A. McCulloh	Physiology/Functional Morphology	University of Utah	Do palms obey Murray's law?
Calista A. McIntyre	Tectonics/Geophysics	State University of New York at Buffalo	Improving Environmental Site Characterization by Rapid Azimuthal Resistivity Surveying for Fracture Detection and Orientation Analyses
Gabe D. McNett	Behavioral Ecology	University of California-San Diego	Lighting conditions, habitat structure, and behavioral choices affecting crypsis and conspicuousness of color patterns in warblers
Ryan J. Medeck	Cell Biology/Biochemistry	Boise State University	Is suBMP necessary for sea urchin spicule formation?
Keith A. Metzger	Physiology/Functional Morphology	State University of New York at Stony Brook	The crocodylian mandible: osteological and sutural morphology, strain patterns, and evolutionary implications of form
Karen J. Michelsen	Tectonics/Geophysics	Virginia Polytechnic Institute and State University	The Internal Structure and Emplacement of the Mount Barcroft Pluton, White Mountains, California

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Thomas L. Miller	Physiology/Functional Morphology	Temple University School of Medicine	Perfluorochemical tidal liquid ventilation and rhCC10: Strategies to limit ventilator induced lung injury and abnormal structural development in the preterm lamb
Eric F. Miller	Behavioral Ecology	California State University-Northridge	The Effect of Larval Density on the Protogynous Behavior of Spotted Sand Bass (<i>Paralabrax maculatofasciatus</i>)
Terry R. Miller	Systematics/Evolutionary Biology	University of Idaho	Testing hypotheses of past vegetation dynamics through the analysis of DNA marker variation
Michael J. Moore	Systematics/Evolutionary Biology	University of Texas at Austin	The Role of Edaphic Shifts in the Evolution of the American Desert Genus <i>Tiquilia</i> (Boraginaceae)
Kelley A. Moore	Paleontology/Sedimentation	University of California-Davis	Paleoclimatic Reconstruction from the d13C organic and the d13C carbonate Proxies in Triassic Paleosols and Sediments, Ischigualasto Basin, Argentina
Robert G. Moyle	Systematics/Evolutionary Biology	Louisiana State University-Baton Rouge	Phylogenetic Relationships of the Barbets (Aves: Ramphastidae): Implications for Pantropical Biogeography
Sophia M. Mutamba	Cell Biology/Biochemistry	University of North Carolina at Greensboro	The Effects of Cocoa Phenolic Phytochemicals on MNNG-induced DNA damage and COX-2 expression in Caco-2 cells
Laura R. Nagy	Behavioral Ecology	Dartmouth College	Determinants of annual breeding productivity of a Neotropical migrant bird
An T. Ngo	Physics/Astronomy	Bryn Mawr College	Binary Crystallization in Two Dimensions
Jacqueline K. Nooker	Behavioral Ecology	University of Wisconsin-Milwaukee	An experimental study of female condition and offspring sex ratio in Tree Swallows

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Grant Recipient	Research Field	Institution	Study Title
Sara A. Ochs	Chemistry	University of Illinois at Urbana-Champaign	Synthesis and Study of Model Compounds to Understand RNA Structural Interactions
Jeffrey C. Oliver	Ecology	University of Colorado at Boulder	Effects of Introduced Plants on Native Phytophagous Insect Species
Nadia E. Palomar	Ecology	University of the Philippines	Factors influencing the density, distribution and size structure of symbiotic shrimp and goby populations in a reef flat system
James F. Parham	Systematics/Evolutionary Biology	University of California-Berkeley	The Origin(s) of Advanced Tortoises
Jonathan L. Payne	Paleontology/Sedimentation	Harvard University	Environmental Control Of Recovery After The Permo-Triassic Extinction
Kristen M. Pearson	Ecology	Northern Arizona University	Determination of niche overlap for three species of Peromyscus using stable isotopes
Ekaterina A. Pechenkina	Anthropology	University of Missouri-Columbia	Effect of Global Cooling on Subsistence Stratagies in the Neolithic
Rebecca L. Perlroth	Petrology/Geochemistry	University of California-Los Angeles	Mechanisms of crystal transfer between melts: an experimental and field investigation
Heidi A. Perreault	Cell Biology/Biochemistry	North Carolina State University	Prozac On The Reef: The Neural Control Of Aggressive Behavior In A Coral Reef Fish
Rafal Persinski	Cell Biology/Biochemistry	University of North Carolina at Charlotte	Antibodies to Borrelia burgdorferi VlsE variable domain and spirochetal immune evasion
Kevin M. Pilz	Physiology/Functional Morphology	Cornell University	Increased Growth Rate in Chicks Exposed to High Levels of Maternal Testosterone: Consequence of Increased Chick Competitive Behavior or Increased Chick Quality?

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David W. Podlesak	Physiology/Functional Morphology	University of Rhode Island	Stable isotope study of the ¹⁵ N enrichment in the tissues of a migrating songbird
Mark D. Pollock	Petrology/Geochemistry	University of Tennessee	Morphological variation in molar-tooth carbonate: influence of substrate rheology and implications for genesis
Roli Prasad	Physiology/Functional Morphology	University of Illinois at Chicago	Identification and Characterization of a Receptor for Bile Acids in the Colon
Jason R. Price	Petrology/Geochemistry	Michigan State University	The Influence of Climate on Clay Genesis (Rates and Mineralogy) in the Southern Blue Ridge Mountains: Geochemical Mass Balance and Implications for Mudrock Mineralogy as an Indicator of Paleoclimate
Dina A. Proestou	Ecology	University of Rhode Island	Sex change in <i>Crepidula fornicata</i> : influence of environmental factors on reproductive success and the timing of sex change
Cassandra L. Rauser	Systematics/Evolutionary Biology	University of California-Irvine	Parallel Analyses of Gene Expression in Short and Long-lived Flies: a genomic approach to aging
Douglas A. Robinson	Behavioral Ecology	State University of New York at Binghamton	Behavioral ecology of 'helpers' at cooperatively-breeding American Crow nests
Hillary L. Robison	Ecology	University of Nevada, Reno	The Ecological Relationship Between A Rocky Mountain Threatened Species and A Great Plains Agricultural Pest
Karyn D. Rode	Anthropology	University of Florida	Nutritional mechanisms of population regulation in frugivorous primates: the effects of logging on redtail monkeys in Kibale National Park, Uganda
Rafael L. Rodriguez	Behavioral Ecology	University of Kansas	The evolution of female choice in lesser waxmoths

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Donata Roome	Ecology	Tulane University	Reproductive Success and Habitat Selection by Swainson's Warblers (<i>Limnothlypis swainsonii</i>) in Alternative Habitats
Jon J. Root	Ecology	Colorado State University	Gene flow of deer mice between human hantavirus pulmonary syndrome cases
Andrew L. Rupke	Tectonics/Geophysics	University of Utah	Origins of inward-dipping wallrock around the Silver Zone Pass pluton
Benjamin I. Ruttenberg	Ecology	University of California-Santa Barbara	Larval retention and population connectivity in the Galapagos Islands
Noam Sagiv	Psychology	University of California-Berkeley	The neuropsychology of face recognition
Heather F. Sahli	Systematics/Evolutionary Biology	Michigan State University	Phenotypic Selection on Anther Exsertion by Individual Pollinator Species
Scott R. Schlossberg	Ecology	University of Illinois at Urbana-Champaign	Effects of cattle grazing and fire on birds of pinyon-juniper woodlands
Kimberly R. Schneider	Behavioral Ecology	University of South Carolina	Differential movement of <i>Mytilus</i> as a mechanism of selection
Kristin Schram	Chemistry	Hobart and William Smith Colleges	Determining Reactivity Ratios of Substituted Vinylpyridinium Monomers
Laura A. Schreeg	Ecology	Michigan State University	How do differences in soil nutrient availability affect forest composition?: An investigation of species-specific responses of northern hardwood seedlings to soil N and Ca availability
Jeffrey M. Schroeder	Tectonics/Geophysics	Central Washington University	Quaternary Fault Slip History of the White Mountains Fault Zone, California
Karen E. Sears	Systematics/Evolutionary Biology	University of Chicago	The Role of Constraints in the Evolution of Mammalian Limbs

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Jocelyn A. Sessa	Paleontology/Sedimentation	University of Cincinnati	The Dynamics of Rapid Faunal Turnover during the Middle Devonian of New York State
Seema Shah	Cell Biology/Biochemistry	Oakland University	Hormonal Regulation of Synthesis of Tumor Suppressor Protein p53 in T47D Breast Cancer Cells
Eileen Q. Shyong	Cell Biology/Biochemistry	Mount Sinai School of Medicine	Effects of Topical Genistein on PUVA-induced Photodamage and Carcinogenesis
Jennifer J. Siegel	Psychology	Bowling Green State University	Space-specific firing properties of single units activity in the reptilian hippocampus
Nicole M. Silvestri	Physics/Astronomy	Florida Institute of Technology	Photometry of White Dwarfs and M Dwarfs in Binary Systems
Daniel F. Sisco	Cell Biology/Biochemistry	Virginia Polytechnic Institute and State University	Site-specific transgene insertion in plants using a mammalian virus
Jennifer M. Smith	Cell Biology/Biochemistry	Marshall University	Differential Gene Expression in Group B Streptococcus Following Interleukin-6 Exposure
Matthew P. Smylie	Physics/Astronomy	Fairfield University	Development of a Junction-Regulated Photoconductor
Darin C. Snyder	Petrology/Geochemistry	Miami University Ohio	Timescales of chemical zonation within silicic magma chambers: the application of U-series disequilibria data, Fogo A deposit, Sao Miguel, Azores
Maira S. Sombra	Physiology/Functional Morphology	Universidad Nacional de San Luis	Characterization and quantification of coprophagy in mara (<i>Dolichotis patagonum</i>): Roll of this mechanism in the utilization off diets with low nutritional value
Kevin M. Spigel	Hydrology/Geomorphology	University of Wisconsin-Madison	Hydrological Impacts of the Cliff Point Forest Fire on the Gold Creek Drainage Basin, Kootenai National Forest, Northwestern Montana

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Laura H. Spinney	Physiology/Functional Morphology	Princeton University	Timing of Breeding in the Cocos Finch (<i>Pinaroloxias inornata</i>)
Jennifer H. Stanley	Psychology	University of Florida	Effects of Differential Context on Lexical Ambiguity Resolution in Younger and Older Adults
Michele A. Stark	Physics/Astronomy	Pennsylvania State University	Preparations for NASA's Space Interferometry Mission
Brian L. Storz	Systematics/Evolutionary Biology	Florida State University	Testing Adaptive Polyphenism in Spadefoot Toads Using Phylogenetics
Patricia K. Szczys	Behavioral Ecology	University of Massachusetts Boston	Investigation of the genetic mating system of the Roseate Tern using microsatellite markers
Michael S. Taylor	Systematics/Evolutionary Biology	Louisiana State University-Baton Rouge	Does Mate Recognition Drive Divergence in Opsin Genes Related to Color Discrimination?
David L. Taylor	Ecology	University of Rhode Island	Effects of water temperature on sand shrimp predation on juvenile winter flounder in Narragansett Bay, Rhode Island
April D. Thames	Psychology	Cerritos Community College	Stereotype Threat Among Community College Students
Shawn A. Thomas	Behavioral Ecology	University of Memphis	What is the role of scent marking in female mammals?
Heather L. Throop	Ecology	State University of New York at Stony Brook	Biogeochemical modeling of the combined influences of atmospheric nitrogen deposition and herbivory on plant production and nutrient cycling
Teresa M. Tibbets	Ecology	University of New Mexico	Ecological stoichiometry and stable isotope analyses of the Middle Rio Grande riparian ecosystem

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Britta N. Torgimson	Anthropology	University of Oregon	The influence of logging on ranging patterns and seed dispersal dynamics in redtailed guenons, <i>Cercopithecus ascanius</i> : A case study in the Kibale National Park
Livio L. Tornabene	Petrology/Geochemistry	University of South Florida	The Gatun Structure: A petrographic and geochemical investigation of a probable Tertiary impact structure near Gamboa, Republic de Panama
Vanessa M. Torti	Ecology	University of Wisconsin-Milwaukee	Effects of climate change on the breeding biology of North American birds
Yuko Toyonaga	Systematics/Evolutionary Biology	Brown University	The control of flowering time in response to nutrient availability in <i>Arabidopsis thaliana</i>
Christopher Tracey	Ecology	Bowling Green State University	Examination of the relationship between phenotypic plasticity and population size in a threatened plant species
Kenton J. Trubee	Paleontology/Sedimentation	University of Akron	Ostracodes as Paleoenvironmental Proxy Indicators: Characterizing the Variability of Non-Marine Ostracode Faunas on San Salvador Island, Bahamas
Hugh H. Tuller	Anthropology	Louisiana State University-Baton Rouge	Dirty Secrets: Blood Protein and Lipid Analysis of Soil from Execution and Grave Sites in Kosovo
Vishal S. Vaidya	Cell Biology/Biochemistry	University of Louisiana at Monroe	Molecular signaling of renal tissue repair following S-1,2-dichlorovinyl-L-cysteine induced nephrotoxicity
Michael L. Vogt	Chemistry	University of West Florida	Telechelic Hyperbranched Polyether-Polyols
Corina L. Wack	Behavioral Ecology	Slippery Rock University	Female mate preference of the convict cichlid, <i>Cichlasoma nigrofasciatum</i>

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Jeffrey M. Welch	Physiology/Functional Morphology	Duke University	Using GFP as an electrode
Gina D. Wesley	Systematics/Evolutionary Biology	University of Chicago	The Effect of Environment on the Morphologic Diversification of a Clade
Natali E. West	Behavioral Ecology	Miami University Ohio	Changes in family dynamics following breeder removal in pine voles (<i>Microtus pinetorum</i>)
Ira Whitten	Cell Biology/Biochemistry	Assumption College	Regulation of RAG Expression and the Effect on V(D)J Recombination
Becky L. Williams	Ecology	Utah State University	The Occurrence, Longevity, and Distribution of Tetrodotoxin in Tissues of the Common Garter Snake after ingestion of the Rough-skinned Newt
Beth E. Williams	Cell Biology/Biochemistry	Swarthmore College	The budding yeast <i>SID2</i> gene: Investigations of intracellular localization
David X. Williams	Systematics/Evolutionary Biology	University of Arkansas at Fayetteville	Phylogeny and genetic diversity of Maple-leaved Oak <i>Quercus acerfolia</i> (Fagaceae)
Cindy L. Wilson	Petrology/Geochemistry	University of Montana	Iron's role in hydrogen peroxide cycling in iron-rich thermal waters
Justin J. Winkler	Anthropology	University of South Florida	Provenance of Etruscan Pottery from Poggio Colla, Italy: a chemical characterization study
Bing Wu	Psychology	University of Louisville	Space vision based on texture information in real and virtual environments
Gilead Wurman	Tectonics/Geophysics	California Institute of Technology	A GPS and InSAR study of land subsidence along the Dead Sea shoreline
Brian S. Wysor	Systematics/Evolutionary Biology	University of Louisiana at Lafayette	Intraspecific phylogeny of <i>Phyllodictyon anastomosans</i>
Juntao Yuan	Physics/Astronomy	University of Texas at Austin	Are BALQSOs extreme accretors?

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Gregory D. Zaro	Anthropology	University of New Mexico	Intensive Use and Abandonment of Spring-Fed Irrigation Systems on the Desert South Coast of Peru
Mara S. Zimmerman	Ecology	University of Michigan-Ann Arbor	Function of stickleback size and shape as antipredator defenses