

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

Alphabetical by Recipient's Name

Grant Recipient	Research Field	Institution	Study Title
Rebecca A. Abler	Ecology	Virginia Polytechnic Institute and State University	Do the effects of anthropogenic soil disturbances inhibit in situ mycorrhizal activity and revegetation efforts?
Samuel B. Adams	Cell Biology/Biochemistry	Thomas Jefferson University	Chondrogenic Differentiation of Peripheral Blood Mesenchymal Stem Cells for Cartilage Repair
Mia S. Adreani	Behavioral Ecology	California State University-Northridge	Reproductive Behavior and Mating System of the Temperate Wrasse, <i>Halichoeres semicinctus</i>
Ali M. Alaouie	Chemistry	North Carolina State University	Exploring Nanoscale Phenomena on Lipid-Substrate Interfaces by Advanced EPR
David K. Alexander	Ecology	University of Wisconsin-Madison	Temporal Dynamics of Jack Pine (<i>Pinus banksiana</i> Lamb) Barrens in the Northwest Wisconsin Sand Plains
Bengt J. Allen	Behavioral Ecology	State University of New York at Stony Brook	Foraging and thermal strategies of fiddler crabs: ecological consequences of microhabitat selection
Guillermo C. Amico	Systematics/Evolutionary Biology	Universidad Nacional del Comahue	Geographical Variation In The Seed Dispersal Of The Mistletoe <i>Tristerix corymbosus</i> In Southern South America: Birds Versus Mammals
Diana L. Andres	Ecology	California State University-Northridge	Testing Diet Switching as a Mechanism for the Evolution of Herbivory in Lizards
Georgios Anipsitakis	Engineering	University of Cincinnati	Novel Chemical Oxidation Process For Water Purification
Manny Azizi	Physiology/Functional Morphology	University of Massachusetts Amherst	Function of segmented muscle during swimming in the salamander, <i>Siren lacertina</i>
Krishan R. Badrinath	Physiology/Functional Morphology	Miami University Ohio	The role of the hedgehog gene during adult muscle development in <i>Drosophila</i>

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Shirley E. Bartz	Behavioral Ecology	Northern Arizona University	Using Stable Isotopes to Assess Diet Shift in <i>Peromyscus</i> spp in Response to Removal of Prairie Dogs (<i>Cynomys gunnisoni</i>)
Sarah L. Bashore	Cell Biology/Biochemistry	Ohio University	Microarray Analysis of Secondary Xylem Production Genes in <i>Arabidopsis thaliana</i>
Matthew T. Bealor	Behavioral Ecology	University of Colorado at Boulder	Geographic Variation in Constricting Behavior of Western Terrestrial Garter Snakes (<i>Thamnophis elegans</i>)
Lauren K. Berube	Cell Biology/Biochemistry	Merrimack College	Localization of <i>Xlmyo1d</i> in <i>Xenopus laevis</i> Neuronal Cells
Leanna M. Birge	Systematics/Evolutionary Biology	New Mexico State University	The Evolution of Sperm Precedence
Tamari N. Bolqvadze	Physiology/Functional Morphology	Tbilisi State Medical University	Immunocytochemical study of GABA-ergic neurons synapses and receptors during different stages of epileptogenesis
Rita M. Brauner	Ecology	Tulane University	Is variation in concentration of secondary metabolites in a tropical understory shrub determined by genetic or environmental factors?
Robin L. Brese	Cell Biology/Biochemistry	Wheaton College, Massachussets	Variation in <i>Phaeomoniella chlamydospora</i> Isolates Among New England Vineyards Using Molecular Techniques
Jedediah F. Brodie	Ecology	University of Montana	Frugivore Diversity and Fig Tree Dispersal
Roger D. Bull	Systematics/Evolutionary Biology	Queens University	An Analysis of the Genetic Uniqueness of the Warbler Populations of the Haida Gwaii
Matt S. Burmeister	Ecology	Eastern Illinois University	Genetic diversity and seed source location when restoring tallgrass prairie plant communitite

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Dana L. Byrd	Psychology	University of Florida	Children With Attention Deficit Hyperactivity Disorder: The Role of Neurological Dysfunction in Deficits of Planning and Problem Solving
Carlos D. Cadena	Systematics/Evolutionary Biology	University of Missouri-St. Louis	Molecular Systematics and Phylogeography of Buarremon Brush-finches (Aves, Emberizinae) in the Neotropics
Jorge Canales-Lazcano	Ecology	Universidad Autonoma del Estado de Hidalgo	Unravelling the physiological effects of and resistance to eugregarine parasites on damselfly hosts
Jane E. Carlson	Ecology	Louisiana State University-Baton Rouge	Seed predator avoidance by <i>Solenophora calycosa</i> , a neotropical shrub
Elizabeth A. Carson	Anthropology	University of New Mexico	Genetic contributions to cranial phenotypic variation: heritability estimates from documented skeletal populations in Bavaria
Santanu Chakraborty	Physiology/Functional Morphology	Miami University Ohio	Role of Na,K-ATPase alpha 4 isoform in sperm motility
Hsuan-Wien Chen	Systematics/Evolutionary Biology	Texas A&M University-College Station	Coevolution Between Endohelminth Parasites and Their Pocket Gopher Hosts
Shaohong Cheng	Cell Biology/Biochemistry	University of Manitoba	Connexins in Zebrafish Lens Development and Function
Debora E. Christensen	Physiology/Functional Morphology	Iowa State University	Prolactin Regulation in a Nonphotoperiodic Bird
Catherine E. Clark	Cell Biology/Biochemistry	University of Illinois at Chicago	Engineered Polymer Surfaces for Controlling Cellular Response
Jonathan R. Coldwell	Physiology/Functional Morphology	University of Adelaide	Colonic afferent response to 5-HT in normal and inflamed states
Jorge A. Contreras-Garduño	Behavioral Ecology	Universidad Nacional Autonoma de Mexico	Cost of spermatophore production in the scorpion <i>Vaejovis punctatus</i>

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Helen Cortes	Systematics/Evolutionary Biology	University of Texas at Austin	A Phylogenetic and Biogeographic study of Bellflowers in the Southern Hemisphere and on Oceanic Islands, with insights to plant conservation programs
Wyatt F. Cross	Ecology	University of Georgia	Ecological Stoichiometry of a detritus-based stream food web
Michelle A. Crowe	Cell Biology/Biochemistry	Washington State University	Effects of a Complementary/Alternative Yoga Program on Nuclear NF-kB in Lymphocytes of Women With Breast Cancer
Andrew D. Czaja	Paleontology/Sedimentation	University of California-Los Angeles	Multi-Spectrum Analysis of Chemical Changes Caused by Fossilization
Sigurros Davidsdottir	Psychology	Bowie State University	Interaction of visual and spatial perception in Parkinson's disease
Kristen M. DeAngelis	Ecology	University of California-Berkeley	Microbial signaling influences soil nitrogen mineralization and plant nitrogen availability
John C. DeVilbiss	Behavioral Ecology	Waynesburg College	Habitat preference of naive clownfish (<i>Amphiprion</i> sp), with implications for our understanding of stock enhancement, biodiversity and habitat loss
Emily K. Dilger	Physiology/Functional Morphology	Mary Washington College	Nocturnal Thermoregulation in White Throated Sparrows
Sheri M. Dixon	Systematics/Evolutionary Biology	Louisiana State University-Baton Rouge	Genetics of Mate Discrimination in <i>Drosophila</i>
Josh Donlan	Ecology	Cornell University	Species Interactions Along Elevational Gradients
Shashank Dravid	Physiology/Functional Morphology	University of Georgia	Voltage-gated sodium channel modulation of NMDA receptor signaling
Natalie S. Dubois	Behavioral Ecology	Michigan State University	Maternal investment and nestling sex ratios in house wrens

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Cheri L. Dunham	Cell Biology/Biochemistry	Truman State University	Optimization of a Mixed Culture System for Microglia and Neurons Using Immortalized Cell Lines
Natalie Dussourd	Ecology	Illinois State University	Effects of Endocrine Disruptors on Plumage in the Indigo Bunting
Nicole M. Edgar	Physiology/Functional Morphology	Virginia Polytechnic Institute and State University	Investigating the physiological mechanism(s) of the magnetic sense in laboratory mice, strain C57BL/6J
Christine E. Edwards	Systematics/Evolutionary Biology	University of Florida	Conservation genetics with a phylogenetic approach in the Mentheae
Alejandra EstÓvez	Cell Biology/Biochemistry	Universidad de Buenos Aires	Nitric oxide system in rat corpus luteum
Liliana Fajardo	Systematics/Evolutionary Biology	San Diego State University	The Biogeography and Phylogenetic relationship among porpoises (Cetacea: Phocoenida)
Mariana G. Farina	Psychology	Universidad de Buenos Aires	Possible role of progesterone in phospholipase A2 activity regulation
Tara M. Fitzhenry	Ecology	University of North Carolina at Chapel Hill	The effects of short-term physiological stress on an organism's long-term fitness
Kathryn M. Flinn	Ecology	Cornell University	Mating systems and colonization ability of ferns in post-agricultural forests
Jeffrey T. Foster	Ecology	University of Illinois at Urbana-Champaign	Invasibility of Hawaiian forests to exotic birds
Trina L. Foster	Chemistry	Bowie State University	Spectroscopic Characterization of the Active Site in Binuclear, Non-heme Iron Complexes
George M. Freeman	Cell Biology/Biochemistry	Duke University	The mouse that inhaled: cannabinoid effects on reproduction
Kristine M. Frizzell	Cell Biology/Biochemistry	Merrimack College	Identification of Molecular Targets of Glucocorticoid Action in Osteoblasts

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Christopher C. Gerbi	Tectonics/Geophysics	University of Maine, Orono	Host-rock response to dike-fed magma chamber growth
Katherine Glover	Hydrology/Geomorphology	University of Cincinnati	Paleoclimate of the Last Transition, Champaign Co, Ohio
Mollie R. Gordon	Physiology/Functional Morphology	Baylor College of Medicine	Personal Digital Assistant Mapping of Head and Neck Nerves using 3-D CT Reconstructions
Suzanne M. Gray	Systematics/Evolutionary Biology	Simon Fraser University	The relative effects of sexual selection and ecological speciation on the origin and maintenance of color polymorphism in the Telmatherinid fishes of Sulawesi, Indonesia
Kristen W. Green	Psychology	Case Western Reserve University	APSD-Y and YPI vs PCL:YV: Finding an Effective Screener for Psychopathy in Adolescence
Joshua B. Gross	Systematics/Evolutionary Biology	Harvard University	Mapping the long-term contributions of the skeletogenic neural crest in <i>Bombina orientalis</i>
Jonna L. Hamilton	Physiology/Functional Morphology	Brown University	Aerial and underwater flight of Thick-billed murres (<i>Uria lomvia</i>)
Paul S. Hamilton	Behavioral Ecology	Arizona State University	Reproductive Success and Survivorship in tree lizards, <i>Urosaurus ornatus</i>
Gregory R. Handrigan	Systematics/Evolutionary Biology	Dalhousie University	Genetic determinants of trunk shortening in anurans
Shala J. Hankison	Systematics/Evolutionary Biology	Clemson University	Genetic variation and gene flow in Mexican sailfin mollies
Lisa A. Harkavy-Cottone	Psychology	State University of New York at Stony Brook	Cognitive Processing of Auditory Stimuli during Sleep and Wakefulness: an Event-Related Potential Approach
George R. Harper	Systematics/Evolutionary Biology	University of North Carolina at Chapel Hill	Mimicry Patterns in Allopatry - Gene Flow and Range Expansion
Julie A. Hartley	Psychology	State University of New York at Albany	Cue-reactivity in People Who Gamble

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Kyle J. Haynes	Ecology	Louisiana State University-Baton Rouge	Direct and Indirect Effects of the Surrounding Landscape on Insect Dispersal Among Patches
Krupa K. Hegde	Psychology	University of Notre Dame	Boundaries of Geometric Perception
Kelly A. Hoadley	Cell Biology/Biochemistry	University of Illinois at Urbana-Champaign	Deoxyribozymes that Ligate RNA
Joscelyn N. Hoffmann	Anthropology	University of Chicago	Fruits, fingers, and form: Functional significance of Meissner's corpuscles
Jessica C. Hogan	Cell Biology/Biochemistry	Louisiana State University-Baton Rouge	Modulation of Adipocyte Gene Expression by Signal Transducers and Activators of Transcription
Heidie M. Hornstra	Physiology/Functional Morphology	Northern Arizona University	Comparative analysis of gas bladder muscle functions in fishes
Allen H. Hurlbert	Ecology	University of New Mexico	Experimental community ecology using Panamanian <i>Drosophila</i> : searching for general principles
Jerry F. Husak	Behavioral Ecology	Oklahoma State University	Hormonal correlates of variation in collared lizard (<i>Crotaphytus collaris</i>) locomotor performance
Kathryn P. Huyvaert	Behavioral Ecology	University of Missouri-St. Louis	Extra-pair fertilizations in waved albatrosses: a test of the related cuckold hypothesis
Boris Igic	Systematics/Evolutionary Biology	University of California-San Diego	The History of Self-Incompatibility in Solanaceae
Rebecca S. Jabbour	Anthropology	City University of New York-City College	Postcranial Skeletal Diversity and Ecomorphology of African Apes
Waddell N. Jack	Physics/Astronomy	Worcester Polytechnic Institute	Mechanical Photoresponse of Wild-Type Bacteriorhodopsin
Stephanie M. Joe	Ecology	University of Hawaii at Manoa	Impact Of Alien Slugs On Native Seedling Survival In Tropical Rainforest, Hawaii
Melanie E. Johnson	Cell Biology/Biochemistry	University of Georgia	Survivin Expression in Canine Lymphoma

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Marc T. Johnson	Ecology	University of Toronto	Community genetics of <i>Oenothera biennis</i> (Onagraceae) and its associated insects: testing how plant genes and insect communities interact
Allison M. Joubert	Cell Biology/Biochemistry	Louisiana State University-Baton Rouge	Lipid Transfer between Lipid Binding Proteins and Peroxisome Proliferator-Activated Receptors
Bradley R. Joyce	Cell Biology/Biochemistry	Virginia Polytechnic Institute and State University	Regulation of Alkaline Phosphatase during development of <i>Dictyostelium</i>
Frans A. Juola	Behavioral Ecology	Bucknell University	Seasonal bias in offspring sex ratios of Great Frigatebirds
Bret G. Kelso	Engineering	Saint Louis University	Mechanical Investigation of Crosslinked Poly(ethylene glycol) Systems
You J. Kim	Cell Biology/Biochemistry	Florida State University	The effects of dietary fat in almonds on plasma lipids and lipoproteins
Johnathan C. King	Cell Biology/Biochemistry	Massachusetts Institute of Technology	Expansion of Murine Whisker Stem Cells
Tiffany A. Klemann	Physiology/Functional Morphology	Miami University Ohio	Localization and Morphological Influence of Secretory Immunoglobulin A
Samuel J. Klempner	Physiology/Functional Morphology	Hamilton College	Investigation of the Morphogenesis of Ephemeral Aortic Arches in Chick Embryos with Special Attention to a Role for Apoptosis in Their Removal
Kimberly E. Kraus-Epley	Behavioral Ecology	Bowling Green State University	Unilateral lesioning of chemoreceptors distinguishes between rheotaxis and chemotaxis
Heather R. LaChance	Psychology	University of Colorado at Boulder	Comparing Group Interventions for a University-based Diversion Program

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John F. LaDisa	Engineering	Marquette University	Local vascular geometry and shear modulated mitotic expression after chronic stent implantation
Simon P. Lailvaux	Behavioral Ecology	Tulane University	Inbreeding and sexual selection in small populations: an investigation using stalk-eyed flies (Diptera: Diopsidae)
Deepak A. Lamba	Physiology/Functional Morphology	University of Illinois at Chicago	A Microfluidics Device for Chemically Communicating with Neural Tissues: Evaluation Using Cultured PC-12 Cells
Jennifer M. Lee	Psychology	St Mary's College of Maryland	The effects of nicotine on learning set acquisition in nucleus basalis magnocellularis (NBM) lesioned rats
Mary H. Lee	Behavioral Ecology	Illinois State University	Potential schooling in tadpoles of the African clawed frogs <i>Xenopus laevis</i> and <i>Silurana tropicalis</i>
David M. Lehmann	Physiology/Functional Morphology	University of Rochester	Ethanol Regulates the Subcellular Distribution of Proteins in the Liver Involved in Messenger RNA Processing
Katherine A. Leighty	Psychology	University of Georgia	The Use of an Interactive 2D Display to Guide Actions in 3D by Capuchin Monkeys
Jessica E. Light	Systematics/Evolutionary Biology	Louisiana State University-Baton Rouge	Molecular Study of Cophylogeny between Sucking Lice (Phthiraptera: Anoplura) and their Heteromyid Rodent Hosts
Adam B. MacConnell	Paleontology/Sedimentation	University of Massachusetts Amherst	Hydrothermal Alteration of Seawater Chemistry and Mid-Cretaceous Plankton Evolution
Padma Maddi	Ecology	Louisiana State University-Baton Rouge	Investigations of seasonal variation in food selection by benthic meiofauna in a salt marsh using stable isotopes

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Kristen E. Marsh	Ecology	University of Mississippi	Pheromonal Signals: Implications for Sex Change in the Bridled Goby
Kelly C. Martin	Psychology	St Mary's College of Maryland	Influences of the GABA pathway on Learning in nBM Lesioned Long Evans Rats
Allison E. Martin	Ecology	Stetson University	Testing the accuracy of a three-source mixing model in predicting the diet of corn snakes (<i>Elaphe guttata</i>)
Jonathan D. Maul	Ecology	Arkansas State University	Interactions among contaminant and ecological stressors: a test for synergistic and antagonistic effects
Alison C. McCombe	Physiology/Functional Morphology	University of Florida	Compensatory growth and life history trade-offs in <i>Hemidactylus garnotii</i>
Susanne M. McDowell	Petrology/Geochemistry	University of North Carolina at Chapel Hill	Using Magma Sheets to Constrain Pluton Emplacement Mechanisms
Robin S. McKeel	Cell Biology/Biochemistry	East Carolina University	Are endothelial nitric oxide synthase and inducible nitric oxide synthase present in fish tissues and do they function in hypoxia?
Erwin A. Melis	Tectonics/Geophysics	University of Maine, Orono	Study of the Main Martir thrust, northern Baja California, Mexico
Christine W. Miller	Systematics/Evolutionary Biology	University of Montana	The influence of maternal effects on a sexually-selected trait in the leaf-footed bug, <i>Leptoscelis tricolor</i> Westwood (Hemiptera: Coreidae)
Jeremy R. Miller	Cell Biology/Biochemistry	University of North Carolina at Charlotte	<i>Staphylococcus aureus</i> Genes Induced during Osteoblast Infection
Shawn A. Moore	Cell Biology/Biochemistry	East Carolina University	The Possible Anti-inflammatory Effects of <i>Cassia occidentalis</i>

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Ludmila M. Moskal	Ecology	University of Kansas	Spatial & temporal geostatistical modeling of forest biophysical characteristics in the Yellowstone Central Plateau
Elizabeth Mullen	Psychology	University of Illinois at Chicago	Affective Influences on People's Perceptions of Fairness
John W. Murch	Engineering	University of Vermont	An Investigation of Propagation Characteristics for Naturally Occurring Environments at ISM Frequency Bands
Shannon M. Murphy	Ecology	Cornell University	A host shift by swallowtail butterflies: the role of plant chemistry
Andrea G. Nackley	Psychology	University of Georgia	Inflammation-Induced Neuronal Activity is Suppressed by a Peripheral Cannabinoid Mechanism
Nisha Nagarkatti	Cell Biology/Biochemistry	Harvard University	Role of systemic and decidual iNKT cells in abortion
Guillermo A. Narsilio	Engineering	Georgia Institute of Technology	Ground deformation - The importance of spatial variability in soil properties
Curtis P. Nepstad-Thornberry	Anthropology	University of Colorado at Boulder	Identifying Patterns of Aggregation in Ceramic Production Using Stylistic and Compositional Analyses
Margaret M. Njuguna	Chemistry	Kenyatta University	Isolation And Characterisation Of Antimalarial Compounds From Some Medicinal Plants Used In Kenya
Jeffrey C. Oliver	Systematics/Evolutionary Biology	University of Arizona	Introduced Plants and Native Insects: a Case Study in Population Genetics
Marina Omacini	Ecology	Universidad de Buenos Aires	Fungal Endophytes Impact On Host-Plant Recruitment Under Different Litter And Water Conditions
Itzel Orduna	Psychology	Rutgers, The State University of New Jersey	Modifying auditory cortical representations through discrimination learning

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Louise Osborne	Behavioral Ecology	Australian National University	Are male-male signals reliable in aggressive lizard species?
Michael S. Petronis	Tectonics/Geophysics	University of New Mexico	Tectonic Vertical Axis Rotation Estimates from Ignimbrites, Candelaria Hills, west Central Nevada
James H. Powell	Petrology/Geochemistry	University of Alabama at Birmingham	Quaternary Magmas of the Raffuse Creek / Mamquam River
Nicol�s Pregi	Cell Biology/Biochemistry	Universidad de Buenos Aires	Aluminum-Induced Apoptosis In Neuronal Cells
Evan L. Preisser	Ecology	University of California-Davis	Ecological Impacts of Predator Evolution
Tara L. Prestholdt	Physiology/Functional Morphology	University of Montana	Costs of Limb Regeneration in Walking-Sticks
Rachel E. Price	Petrology/Geochemistry	State University of New York at Oswego	Analysis of planar and linear mineral fabrics in a heterogenous ductile shear zone: southern Adirondack Mountains, New York
Frank Pyrtle	Engineering	Georgia Institute of Technology	Analysis of Vibration Induced Droplet Atomization for High Heat Flux Evaporative Cooling
Safdar A. Qureshi	Physiology/Functional Morphology	University of Nevada-Las Vegas	Ubiquitin dynamics in estivating snails
Kristin D. Ragucci	Cell Biology/Biochemistry	Monmouth University	Defensin mRNA Expression During Postnatal Development of the Epididymis and Testis
Amit R. Reddi	Chemistry	Carleton College	Synthesis of a Ti(IV) Tetrahedral Container Cluster: On the Road to Elucidating the Mechanism of Guest Exchange for M4L6 Tetrahedral Container Clusters
Michael A. Reott	Cell Biology/Biochemistry	University of North Carolina at Charlotte	Intracellular S aureus Induces Immune Modulator Expression
Matthew W. Reudink	Ecology	Villanova University	Do extra-pair fertilizations confound patterns of reproductive success in a chickadee hybrid zone?

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Lora A. Richards	Ecology	University of Utah	Effects of productivity on resource availability and predator pressure of herbivores
Jonathan Q. Richmond	Systematics/Evolutionary Biology	University of Connecticut	Testing the parallel speciation hypothesis in scincid lizards of the <i>Eumeces skiltonianus</i> species group
Edward P. Rigel	Anthropology	Georgia Southern University	A Locomotor Approach to Lorisidae Taxonomy
James W. Rivers	Behavioral Ecology	University of California-Santa Barbara	An investigation of the proximate factors that influence begging behavior in the Brown-headed Cowbird
Natalie S. Robinson	Ecology	University of California-Berkeley	Community Dynamics: How Vegetative Invasion of California Grasslands May Affect Thier Arthropod Inhabitants
Valeria I. Roca	Physiology/Functional Morphology	Universidad de Buenos Aires	Interaction between nitric oxide and cytokines in salivary glands of NOD mice
Lizzette A. Rodriguez	Petrology/Geochemistry	Michigan Technological University	SO ₂ loss rates at volcanoes with different atmospheric conditions
Ernesto A. Roman	Physiology/Functional Morphology	Universidad de Buenos Aires	Food deprivation effect on the ovulatory process
Adrienne M. Romanski	Ecology	Columbia University	Human facilitation of invasive ant spread
Jolaine Roycewicz	Ecology	St. Lawrence University	Does habitat fragmentation alter genetic structure in small mammal populations?
Katrina G. Salvante	Systematics/Evolutionary Biology	Simon Fraser University	Physiology underlying the æ cost of reproduction Æ : Lipoprotein lipase activity and very-low density lipoprotein particle-size distribution in energy challenged birds
Valeria A. Sander	Cell Biology/Biochemistry	Universidad de Buenos Aires	Polycystic Ovarian Syndrome and Immunological Status

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Jonathan M. Schiavi	Physiology/Functional Morphology	Widener University	Determination of Myosin Light Chain 2 Isoform Expressions in Red Muscle of Juvenile Rainbow Trout <i>Oncorhynchus mykiss</i>
David W. Scott	Cell Biology/Biochemistry	University of North Carolina at Greensboro	How does curcumin cause death in colon cancer cells?
Jennifer L. Seabaugh	Petrology/Geochemistry	Miami University Ohio	Microbial Reduction of Iron in Sedimentary Clays
Amanda L. Sesser	Ecology	Florida Institute of Technology	Vine diversity on an Andean elevational gradient
Patricia G. Sevene-Adams	Systematics/Evolutionary Biology	University of Louisville	The effect of stress and life history on senescence in guppies (<i>Poecilia reticulata</i>)
Saumya G. Sharma	Psychology	Bowie State University	Visuospatial Functioning in HIV
Timothy B. Sickbert	Hydrology/Geomorphology	Illinois State University	The effect of differential stream flow velocities on hyporheic interchange
Michael D. Simone	Systematics/Evolutionary Biology	University of North Carolina at Wilmington	Social interactions based on male size and melanism in the eastern mosquitofish (<i>Gambusia holbrooki</i>)
Laura N. Smith	Psychology	George Mason University	The effects of maternal age on memory: CREB1 and the NR2B receptor subunit
Ramón A. Sosa	Ecology	Universidad Nacional de La Pampa	Bird assemblages in fragmented forests in eastern La Pampa province, Argentina
Anthony S. Spitzack	Behavioral Ecology	Eastern New Mexico University	The Effects of Predation risk, Gender, Gender Interactions and Sexual Selection on Depth Choice in the Western Mosquitofish, <i>Gambusia affinis</i>
Jordanna D. Sprayberry	Physiology/Functional Morphology	University of Washington	Visual control of flight in the hawk moth <i>Manduca sexta</i>
Bhooma Srinivasan	Cell Biology/Biochemistry	University of North Texas	The role of NUAGE in photoreceptor cell death
Lauren C. Steck	Psychology	Lindenwood University	The Perpetuation of Ageist Stereotypes in Young and Older Adults
Douglas M. Stenstrom	Psychology	University of Southern California	Intergroup Aggression

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Kelly R. Stewart	Ecology	Duke University	Population dynamics of the leatherback (<i>Dermochelys coriacea</i>) sea turtle in Florida; witnessing the development of a new rookery, and a nesting range extension for this species
Michael R. Strezewski	Anthropology	Indiana University - Bloomington	Investigating Patterns of Interpersonal Violence at the Fisher Mounds Site (AD 1200-1500)
Katherine A. Stuart	Engineering	Saint Louis University	Controlling Vascular Smooth Muscle Cell Growth using Poly(ethylene glycol) Coatings
Walter A. Sullivan	Tectonics/Geophysics	Virginia Polytechnic Institute and State University	Geometry, kinematics and age of the northern half of the White Mountain Shear Zone, eastern California and Nevada
Ryan K. Sullivan	Cell Biology/Biochemistry	Merrimack College	Molecular Basis for Functional Differences in Cytochrome C Oxidase in Carcinoma versus Normal Epithelial
Stephanie L. Swart	Ecology	Western Michigan University	Environmental stress, biomarkers, and disease in benthic stream invertebrates
Matthew J. Sweeney	Engineering	Auburn University	Design and Operation of a Model Micro-Pump
Andrea L. Sweigart	Systematics/Evolutionary Biology	Duke University	Inferring the history of speciation in <i>Mimulus</i>
Jennifer L. Szczytkowski	Physiology/Functional Morphology	Rider University	Activation of the Sympathetic Nervous System by Cyclophosphamide
Jennifer A. Talkington	Behavioral Ecology	DePaul University	Sexual selection in threespine stickleback: a role for courtship sounds?
James C. Taylor	Behavioral Ecology	North Carolina State University	Mapping Nassau grouper spawning aggregations: creating baselines for conserving the sentinels of the reef

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Scott M. Taylor	Physiology/Functional Morphology	Florida Institute of Technology	Ontogenetic development of retinal structure and function in fishes of the Subdivision Elopomorpha (Class Actinopterygii: Division Teleostei)
Jennifer H. Thomas	Chemistry	University of Cincinnati	Scanning Electrochemical Microscopy for Ultra-Sensitive Electrochemical Immunoassay
David R. Ticehurst	Physics/Astronomy	Williams College	Understanding Coronal Heating at the Total Solar Eclipse
Rebecca J. Trueman	Ecology	University of Illinois at Chicago	Respiratory Control of Ecosystem Carbon Cycling using Elevated CO ₂ and Stable Isotopes
Mario Vallejo-Marin	Systematics/Evolutionary Biology	Duke University	Evolution of sex ratio in a cosexual plant: Assessing the importance of frequency-dependent selection through both male and female components of fitness
Natalie A. van Breukelen	Behavioral Ecology	Lehigh University	Hormonal Influences on Role Flexibility in a Biparental Species
Matthew D. Venesky	Behavioral Ecology	Gannon University	Behavior of male Zebra Cichlid, <i>Pseudotropheus zebra</i> , in response to visual and olfactory stimulation by females
Erin R. Villarraga	Anthropology	University of Southern Mississippi	Health in the City: What Teeth of the Tikal Maya Tell Us
Shawn E. Vincent	Physiology/Functional Morphology	Tulane University	How do snakes limit their drag profile during aquatic feeding? A cranial kinematic analysis
Daniela C. Vittori	Cell Biology/Biochemistry	Universidad de Buenos Aires	Aluminum Interference With Erythropoietin-Prevented Apoptosis
Monica K. Voudris	Cell Biology/Biochemistry	Wheaton College, Massachusetts	Assay of Angiogenesis by 13-Hydroxyoctadecadienoic Acid (13-HODE) using RNA extraction and Northern Blot Analysis

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

Alphabetical by Recipient's Name

Grant Recipient	Research Field	Institution	Study Title
Roland J. Wall	Ecology	University of Delaware	The Ecological Conditions of Stormwater Management Ponds in New Castle County, Delaware, with Reference to Macroinvertebrate Community Metrics
Junfeng Wang	Physics/Astronomy	Pennsylvania State University	Silicon Immersion Grating for High Resolution Infrared Spectroscopy
Haoyi Wang	Systematics/Evolutionary Biology	Miami University Ohio	Organization and Evolution of the Cyp2 Gene Subfamily Cluster in Rat
Bei Wang	Computer Science/Mathematics	University of Bridgeport	Experimental robot musician
Elizabeth M. Warburton	Systematics/Evolutionary Biology	Emporia State University	Prerequisites for parasitism in order Rhabditida (Nematoda)
Patricia G. Waters	Cell Biology/Biochemistry	Bates College	The Effect of Stress on the Bax to Bcl2 Ratio in the Rat Hippocampus
Noah K. Whiteman	Systematics/Evolutionary Biology	University of Missouri-St. Louis	Host-parasite population genetics: a model coevolutionary system in the Galapagos
Mary C. Wolf	Physiology/Functional Morphology	Bowling Green State University	Temporal coding of odorant information in Crayfish
Bob B. Wong	Behavioral Ecology	Australian National University	Fighting in Fiddler Crabs: Why do residents win?
Douglas C. Woodhams	Ecology	James Cook University	Antimicrobial Skin Peptides Defending Amphibians from an Emerging Disease, Chytridiomycosis
Hailin Wu	Computer Science/Mathematics	University of Denver	Efficient management of mobility in mobile commerce
Nina Wurzburger	Ecology	University of Georgia	The effects of N deposition on nutrient acquisition of ectomycorrhizal fungi; ombrotrophic bogs as model systems
Qiaolin Yang	Engineering	University of Cincinnati	Use of Water-immiscible Room Temperature Ionic Liquids for Extraction and In-situ Destruction of Halogenated organics

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Gary L. Yarbrough	Psychology	University of Louisville	Evaluation and localization of ethanol's effects on the developing retina
Ho H. Yeung	Psychology	Duke University	Tonal and Segmental Processing in Speech Perception
Ronald S. Zalesny	Ecology	Iowa State University	Quantitative Genetic Analysis of Rooting Ability of Dormant Unrooted Hybrid Poplar Cuttings in the Lake States
yong zhang	Chemistry	Middlebury College	Radical Alkylation of Cyclobutadieneiron Tricarbonyl and butadieneiron Tricarbonyl
Mark A. Zubriski	Cell Biology/Biochemistry	Arizona State University	Role of anti-viral OAS genes in atherosclerosis development