

Grants from the October 15, 2006 Deadline

Alphabetical by Subject

Subject	Student	College/ University	Title	Mentor
Anthropology	Tafline Crawford	Washington University in St. Louis	Comparative Analysis of the Makapansgat Hominins	Glenn Conroy
Anthropology	David Fernandez Sobrado	State University of New York at Stony Brook	Female Reproductive Competition in the Sanje Mangabey (<i>Cercocebus sanjei</i>)	Diane Doran-Sheehy
Anthropology	Siobhan Hart	University of Massachusetts Amherst	Radiocarbon Dating of Archaeological Features at the Area D Site, Deerfield, Massachusetts	Elizabeth Chilton
Anthropology	Tiffany Hensley	University of Southern Mississippi	DNA Testing of the Moran Site (22HR511)	Marie Danforth
Anthropology	Stacey Hodder	McGill University	Do Forest Edges Facilitate Parasite Transmission from Humans to Non-human Primates?	Colin Chapman
Anthropology	Jamie Hodgkins	Arizona State University	Taphonomy and Zooarchaeology of Pech de l'Azé IV, France	Kaye Reed
Anthropology	Lynn Lucas	Florida Atlantic University	Craniofacial Form and Temporalis Configuration in Middle Pleistocene Hominids	Robert McCarthy
Anthropology	Mathilde Matthijsse	University of Durham	Inuit Women's Entry into the Labour Market and its Effects on Intra-household Relations	Andrew Russell
Anthropology	Carl McCabe	University of California-Davis	Customs and Informal Institutions in Beijing's Vegetable Markets: An Ethnographic Account of Prosociality	Bruce Winterhalder
Anthropology	Maureen Meyers	University of Kentucky	Identifying Frontier Chiefdoms Archaeologically at the Edge of the Mississippian World	Richard Jeffries
Anthropology	Allison Rexroth	University of Denver	Franktown, Trinchera, and Kenton Caves: A Study of Perishable Assemblages as Indicators of Cultural Affinity and Change in the Early/Middle Archaic through Early Ceramic of the Southern High Plains	Lawrence Conyers
Anthropology	Kirstin Sterner	New York University	Evolutionary History of the Toll-like Receptor 7 Locus in Primates	Todd Disotell
Anthropology	Erica Tyler	Ohio State University	Socio-political Destabilization and Women's Health: the Bioarchaeology of Roman and Merovingian Gaul	Clark Larsen
Behavioral Ecology	Mary Agnew	Saint Louis University	The Role of the Major Histocompatibility Complex in Pre- and Postcopulatory Mate Choice by Female Guppies (<i>Poecilia reticulata</i>)	Shawn Nordell

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Behavioral Ecology	Jennifer Akst	Indiana University Bloomington	Genetic Analysis of Floridian Lined Seahorses (<i>Hippocampus erectus</i>)	Michael Wade
Behavioral Ecology	Laura Alberici da Barbiano	Texas State University-San Marcos	Unisexual-sexual Mating Systems: Is male Fitness Influenced by the Frequency of Unisexual Heterospecific Females?	Caitlin Gabor
Behavioral Ecology	Carlos Botero	Cornell University	Behavioral Mechanisms that Affect Paternity in the Tropical Mockingbird (<i>Mimus gilvus</i>)	Sandra Verhencamp
Behavioral Ecology	Clay Buchanan	Central Michigan University	Habitat Use By Reintroduced American Marten In Hardwood Dominated Forest	Bradley Swanson
Behavioral Ecology	Fernando Campos	University of Calgary	Olfactory Signaling and Urine Washing in White-faced Capuchins, <i>Cebus capucinus</i>	Linda Fedigan
Behavioral Ecology	Vladimir Dinets	University of Miami	Evolution of Mating-related Communication of Crocodylians (order <i>Crocodylia</i>)	Steven Green
Behavioral Ecology	Courtney Fitzpatrick	Duke University	Sexual Selection in Females: are Baboon Sex Skin Swellings a Sexually Selected Trait?	Susan Alberts
Behavioral Ecology	Megan Gall	California State University-Long Beach	Visual Acuity, Visual Field and Foraging Ecology of the Black Phoebe (<i>Sayornis nigricans</i>)	Esteban Fernandez-Juricic
Behavioral Ecology	Chadwick Hanna	University of Louisville	Does Dietary Color Change Affect Flower Color Preference in the Juvenile Crab Spider <i>Misumenops asperatus</i> ?	Perri Eason
Behavioral Ecology	Heather Jackson	Louisiana State University-Baton Rouge	When Neighbors are Useful: Conspecific Attraction During Different Stages of Passalid Beetle Dispersal	James Cronin
Behavioral Ecology	Floria Mora Kepfer	University of Miami	What does it take to be a Queen? : Effect of Juvenile Hormone, Nutrition, and Social Interactions on Hierarchy Status in a Primitively Eusocial Wasp	Keith Waddington
Behavioral Ecology	Emily Morrison	Michigan State University	Avian Foraging Behavior in Forest Restoration Sites in Southwestern Costa Rica	Catherine Lindell
Behavioral Ecology	Maria Mosca Torres	Consejo de Investigaciones Cientificas y TTcnicas	Diet and habitat Selection in a Vicuña Population in Salta Province, Argentina	Silvia Puig
Behavioral Ecology	Matthew Smith	University of Florida	Variation in Male Mating Success: the Role of Male Accessory Glands in Sperm Competition	H.J. Brockmann

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Behavioral Ecology	Jaime Tanner	Michigan State University	Ontogenetic and Behavioral Influences on Diet in the Spotted Hyena (<i>Crocuta crocuta</i>)	Kay Holekamp
Behavioral Ecology	Divya Uma	Georgetown University	A web of Intrigue: Factors Influencing Prey Preferences of Spider-hunting Wasps	Martha Weiss
Cell Biology/ Biochemistry	Christina Carlson	University of Wisconsin-Madison	Mechanism of Transforming Growth Factor- β Activation by Influenza Neuraminidase	Stacey Schultz-Cherry
Cell Biology/ Biochemistry	Emily Daviau	Middlebury College	The Effect of Testosterone on Hippocampal Neurogenesis and Spatial Memory in Adult Male Rats	Mark Spritzer
Cell Biology/ Biochemistry	Karen Drahos	Virginia Polytechnic Institute and State University	Developmental Pathways Involved in Resistance to Genotoxic Stress During Early Embryogenesis	Carla Finkielstein
Cell Biology/ Biochemistry	Jason Hayes	Miami University Ohio	Elevated NF- κ B as a Compensatory Mechanism for Maintenance of Indoleamine Dioxygenase Activation in Chlamydia-Infected Cells	Joseph Carlin
Cell Biology/ Biochemistry	Wendy Hwang-Verslues	University of California-Riverside	Over-expression of HNF4 α Regulates Cell Cycle	Frances Sladek
Cell Biology/ Biochemistry	Deborah Jones	University of the Witwatersrand	An Investigation of the Proctodeal Region with Respect to Development and Breakdown of the Cloacal Membrane in <i>Xenopus laevis</i>	Beverly Kramer
Cell Biology/ Biochemistry	Jooyong Jung	Miami University Ohio	Mechanism of Pro-inflammatory Cytokine Induction Following Chlamydia trachomatis-THP-1 Cell Interaction	Joseph Carlin
Cell Biology/ Biochemistry	Lavakumar Karyampudi	Indiana State University	Effectiveness of Idiotypic-Adjuvant Conjugate Vaccine against a B Cell Lymphoma	Swapan Gosh
Cell Biology/ Biochemistry	Kevin Kim	Virginia Polytechnic Institute and State University	Role of Circadian Proteins in Tumor Suppression	Carla Finkielstein
Cell Biology/ Biochemistry	Antonina Kruppa	Mount Holyoke College	Identifying Binding Sites for the betaFTZ-F1 Protein in the E93 Gene of <i>Drosophila melanogaster</i>	Craig Woodard
Cell Biology/ Biochemistry	Betsy Mathew	Widener University	The Effects of Atrazine on Cytochrome P450 Activity in Rana Pipiens	Frances Weaver
Cell Biology/ Biochemistry	Maria Moreno Arbeleche	Center for Pharmacological and Botanical Studies	Circadian Rhythms in glaucoma	Ruth Rosenstein
Cell Biology/ Biochemistry	Karen Newell-Litwa	Emory University	Regulation of Synaptic Vesicle Protein Turnover by Novel Lysosomal Transport Mechanism	Victor Faundez

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Cell Biology/ Biochemistry	Ryan Notti	University of Connecticut	Neurotransmitter Regulation of Stem Cells in the Elderly Mouse Brain	Joanne Conover
Cell Biology/ Biochemistry	Kevin O'Brien	University of Wisconsin-Madison	Altered Cellular Innate Immune Response During Highly Pathogenic H5N1 Avian Influenza A infections; Role of Neutrophils in Anti-viral Response	Stacey Schultz-Cherry
Cell Biology/ Biochemistry	Benjamin Samelson-Jones	Albert Einstein College of Medicine	Catalytic Mechanism of Indoleamine 2,3-Dioxygenase	Syun-Ru Yeh
Cell Biology/ Biochemistry	Lindsey Seldin	Middlebury College	Characterizing Putative Intermediaries of Streptococcus Mutans SloR Metalloregulation	Grace Spatafora
Cell Biology/ Biochemistry	Tuong Ta	University of California-Riverside	Linoleic Acid is the Endogenous Ligand for the Nuclear Receptor Hepatocyte Nuclear Factor 4 (HNF4) alpha	Frances Sladek
Cell Biology/ Biochemistry	Norbert Tavares	Southern Connecticut State University	Investigation of Ubiquitination and Phosphorylation on the Function and Localization of the G1 cyclin Cln2.	Nicholas Edgington
Cell Biology/ Biochemistry	Jessica Welker	Pennsylvania State University	Examination of Phospho-ERK in Osteoblasts in the Presence of Bone Metastatic Breast Cancer Conditioned Medium	Andrea Mastro
Cell Biology/ Biochemistry	Hongwei Zhao	Shenyang Pharmaceutical University	The Proteomic Study of Arabidopsis Cleavage and Polyadenylation Specificity Factors	Qingshun Li
Chemistry	Daniel de Lill	George Washington University	Exploring and Manipulating Lanthanide Luminescence in Metal-Organic Framework Materials	Christopher Cahill
Chemistry	Jara Johnson	Southern Oregon University	Metal Leaching and Acid Mine Drainage at the Blue Ledge Mine, Siskiyou County, California	William Elliott
Chemistry	Marta Kocun	Concordia University	Force Spectroscopy Study of Chitosan	Louis Cuccia
Chemistry	Thomas Lazzara	McGill University	Size and Shape Characterization of Self-assembled Polymer Nanotubes Towards Developing Controlled Polymerization Templates	Michael Whitehead
Chemistry	Chi Hang Lee	Illinois Institute of Technology	Novel Potential Photosensitizers for Anti-Cancer Photodynamic Therapy: the Synergy Effect of Boron and Silicon Phthalocyanines with Nucleobases Substituents	Peter Lykos

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Chemistry	Parag Mukhopadhyay	Duke University	Modeling Chiroptical Properties of Biomolecules and Natural Products in Solution	David Beratan
Chemistry	Jorge Ubillus	Queens College of The City University of New York	Hydrophobically Driven Conformational Switching in Squaramides	Rajeev Muthyala
Conservation Biology	Nabin Baral	Virginia Polytechnic Institute and State University	The Maoists insurgency and conservation in Nepal	Marc Stern
Conservation Biology	Christine Bruno	California State University-Northridge	Geographic Trends in Photolyase Activity and the Sublethal Effects of UV-B Exposure in the Andean Toad	Robert Espinoza
Conservation Biology	Daniel Cardoni	Universidad Nacional de Mar del Plata	Genetic and Morphological Adaptations in birds of South American Tidal Marshes: Convergence with Eastern North America?	Russell Greenberg
Conservation Biology	Sara Emerson	University of Illinois at Chicago	Conservation and Habitat Requirements of the Sykes Monkey (<i>Cercopithecus albogularis erythrarchus</i>)	Joel Brown
Conservation Biology	Kirk Kornegay	Appalachian State University	Crustacean Autotomy and Energy Allocation in the Caribbean Spiny Lobster (<i>Panulirus argus</i> , Latreille): a Case Study in Conservation Physiology	Shea Tuberty
Conservation Biology	Suzanne Morrison	Australian National University	The Ecology and Conservation of the Fijian Crested Iguana (<i>Brachylophus vitiensis</i>)	Scott Keogh
Conservation Biology	John Sliveus	University of California-Santa Cruz	Effects of Increased Current Velocity on the Growth and Condition of Captive Juvenile Coho Salmon (<i>Oncorhynchus kisitch</i>)	Mark Carr
Conservation Biology	Lena Usyk	Central Michigan University	The Ecology of LeConte's Sparrows at Munuscong Bay	Michael Hamas
Ecology	Josh Auld	University of Pittsburgh	The Density-dependent and -independent Effects of Predation on the Mating System of the Hermaphroditic freshwater Snail <i>Physa acuta</i>	Rick Relyea
Ecology	Beatriz Baker-Méio	University of Missouri-St. Louis	Role of Pollinators in Maintaining Local Diversity of <i>Chamaecrista desvauxii</i> (Leguminosae)	Robert Marquis
Ecology	Amanda Brothers	Indiana University Bloomington	Floral Scent Dimorphism in the Dioecious Plant <i>Silene latifolia</i>	Lynda Delph
Ecology	Leah Brown-Wilusz	University of Connecticut	Ontogenetic Effects of Hatching Plasticity in Spotted Salamanders due to Larval and Egg Predators	Kurt Schwenk

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Ecology	Melissa Cameron	Towson University	Evaluating Peccary Wallows as Dry Season Breeding Habitat for Anurans.	Herald Beck
Ecology	Amanda Chunco	University of North Carolina at Chapel Hill	Ecological Correlates of Hybridization in Spadefoot Toads	Karen Pfennig
Ecology	David Costello	University of Notre Dame	Effects of Exotic Earthworms (<i>Lumbricidae</i>) on Nutrient Dynamics in linked Terrestrial-aquatic Ecosystems	Gary Lamberti
Ecology	Susan Elliott	Dartmouth College	Bumblebee Pollinator Response to Floral Resource Availability	Rebecca Irwin
Ecology	Amy Greer	Arizona State University	Mechanisms of Disease Transmission Directly Influence Host Persistence or Extinction.	James Collins
Ecology	Paul Gugger	University of Minnesota, Twin Cities	Geographic and Adaptive Consequences of Climate Warming on Douglas-fir	Shinya Sugita
Ecology	Kendra Hayashi	Moss Landing Marine Laboratories	Application of rDNA ITS Sequence Analysis to Assess Inter- and Intraspecific Diversity in <i>Pseudo-nitzschia</i> Communities in Monterey Bay, CA	G. J. Smith
Ecology	Katherine Higgins	University of Utah	Diversity and Ecological Interactions of Fungal Endophytes in Tropical Grasses	Phyllis Coley
Ecology	Timothy Hoellein	University of Notre Dame	Coupling Microbial Community Composition and Ecosystem Processes to Examine the Response of Microbial Biofilms to Experimental Eutrophication in a Midwestern Stream	Jennifer Tank
Ecology	Sara Jablonski	Williams College	Resistance to A-amanitin in the <i>Drosophila quinaria</i> Species Group	Jason Wilder
Ecology	Lee Jacobs	University of North Carolina at Chapel Hill	Identifying Mechanisms Causing Janzen-Connell Effects in Southeastern Temperate Forests	Robert Peet
Ecology	Tracey Johnson	Oregon State University	The Relative Effects of Livestock Grazing Intensity on Consumer versus Resource Regulation of Grassland Bird Populations.	Patricia Kennedy
Ecology	Daniel Jones	Pennsylvania State University	Comparative Microbial Genomics of Two Extreme Environments	Jennifer Macalady
Ecology	Corinne Kozlowski	University of Missouri-St. Louis	Within-clutch Variation of Yolk Androgens in the Eastern Screech Owl (<i>Megascops asio</i>)	Robert Ricklefs
Ecology	Stacy Krueger	California State University-Northridge	Differential Gene Expression in the Life History of <i>Mastocarpus papillatus</i>	Steven Dudgeon

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Ecology	Erin Kurten	Stanford University	Effect of Terrestrial Mammals on Tropical Plant Functional Composition and Community Assembly	G.F. Warren
Ecology	Kristen Landolt	Murray State University	The Effect of Predator Presence on the Early Developmental Stages of the Mole Salamander <i>Ambystoma talpoicum</i> .	Howard Whiteman
Ecology	Teresa Maness	Wake Forest University	Sex-specific Post-fledging Survival in a Male Biased Population of the Reverse Sexual Size Dimorphic Seabird, Nazca booby	David Anderson
Ecology	Tara Massad	Tulane University	Helping Seedlings Help Themselves: Improving Tropical Reforestation Through Chemical Ecology	Lee Dyer
Ecology	Sarah McMenamin	Stanford University	Metamorphosis and Population Genetics of the Tiger Salamander (<i>Ambystoma tigrinum melanostictum</i>) in Response to Local Habitat and Climate Change in the Greater Yellowstone Ecosystem	Elizabeth Hadly
Ecology	Jennifer Mosher	University of Alabama at Tuscaloosa	Influences of Underlying Bedrock on Sedimentary Microbial Community Structure in Forested Streams	Robert Findlay
Ecology	Shomen Mukherjee	Ben-Gurion University of the Negev	Understanding Predator-prey Interactions Using a Game Theoretic Approach	Burt Kotler
Ecology	Sharmila Pathikonda	The University of Louisiana at Lafayette	Effects of Salinity Stress and Invasive Species on the Interaction Between a Native Freshwater Marsh Plant and its Pollinator	Susan Mopper
Ecology	Sara Paver	University of Illinois at Springfield	Extention of Phosphate Cycling in Freshwater: Identification of Bacterial Species that Cylcle Organophosphates	Michael Lemke
Ecology	Eryn Pendley	Sam Houston State University	Thermal Preferences of Bark Scorpions in Hetergenous Environment.	Matthew Rowe
Ecology	Fern Perkins	Appalachian State University	Increased Nitrogen Deposition and the Green Algal Lichen <i>Umbilicaria mammulata</i> : too Much of a Good Thing?	Howard Neufeld
Ecology	Carlos Prada	Universidad de Puerto Rico en Mayaguez	Genetic Variation and Phenotypic Placidity of the Gorgonian <i>Plexaura flexuosa</i> in Puerto Rico	Paul Yoshioka

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Ecology	Anne Readel	University of Illinois at Urbana-Champaign	The Effects of Habitat Degradation on the Gastrointestinal Parasites of Slider Turtles (<i>Trachemys scripta</i>)	Christopher Phillips
Ecology	Rachael Ryan	New Mexico State University	Biochemical Defense in the Checkerspot Butterfly <i>Euphydryas anicia cloudcrofti</i> (Lepidoptera: <i>Nymphalidae</i>).	Brook Milligan
Ecology	Stephanie Schroeder	University of Oregon	Game Theory Challenged; the Testing of new Territoriality Models Using <i>Lottia gigantea</i>	Alan Shanks
Ecology	Kristin Swaim	New Mexico State University	Relating Fish Abundance and Condition to Environmental Factors in Desert Sinkholes	Wiebke Boeing
Ecology	Brian Tavernia	Tufts University	Evaluating the Hildén Model of Habitat Selection: New Ways to Test an Important Idea	J.M. Reed
Ecology	Philip Taylor	Virginia Polytechnic Institute and State University	Analysis of C stability across an N loading gradient in the Appalachian Mountains	H.M. Valett
Ecology	Dena Vallano	Cornell University	Investigating the Use of Foliar $\delta^{15}N$ Signatures as Indicators of Atmospheric Nitrogen Dioxide Pollution in Red Maple (<i>Acer rubrum</i>)	Jed Sparks
Ecology	John Wendler	Southern Illinois University-Edwardsville	Morphology, Performance, and Fitness in the Southern Flying Squirrel (<i>Glaucomys volans</i>)	Richard Essner
Ecology	Paul White	Kansas State University	Nanoparticle Impacts on Soil Biological Properties	Charles Rice
Engineering	Sanja Benac	Illinois Institute of Technology	Investigation of Retinal Hemodynamic Changes in Diabetic Animal Model	Jennifer Kang Derwent
Engineering	Brittany Bradshaw	University of Texas at Austin	Novel Proteolysis Chip Technology for Studying Cell Migration with Matrix Metalloproteases in Collagen Matrix	Muhammad Zaman
Engineering	Steve Carrea	Manhattan College	Hydrogen Generation via Sodium Borohydride	Nada Assaf-Anid
Engineering	Shikha Gupta	University of California-Berkeley	Effects of Tissue Sectioning and Substrate on the Dynamic Mechanical Properties of Porcine Costal Cartilage as Determined from Atomic Force Microscopy.	Lisa Pruitt
Engineering	Sheryl Kane	University of California-San Francisco	PEGylation of UHMWPE to Improve Lubrication and Early Wear Behavior of Total Hip Replacements	Angela Koehler

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Engineering	Rebecca Kowalczyk	Rutgers, The State University of New Jersey	Analysis of Flow Patterns Resulting from Cephalopod Locomotion	Francisco Diez-Garias
Engineering	Stephanie Lansing	Ohio State University	Optimizing Electricity Generation and Wastewater Treatment in Small-Scale Digesters	Jay Martin
Engineering	Adarsh Sagar	Drexel University	Manufacturing of Drug Nano-dispersions and Nano-particles by Mechanochemical Synthesis.	Yury Gogotsi
Engineering	Dinesh Shukla	University of Illinois at Chicago	Investigation of White Matter Integrity in Correlation with Functional Connectivities in Patients with Multiple Sclerosis: A Diffusion Tensor and Functional MRI Study	Glenn Stebbins
Engineering	Philip Vanderwerker	Rutgers, The State University of New Jersey	Stereo PIV Measurement In Particle Laden Jets	Francisco Diez-Garias
Engineering	Lee Vanzler	Lafayette College	In-Situ Enhanced Steam Remediation Using Geothermal Energy	Arthur Kney
Hydrology/ Geomorphology	Katherine Adelsberger	Washington University in St. Louis	Sedimentology, Geomorphology and Paleoenvironmental Interpretation of Artifact-Bearing Spring Mounds in Dakhleh Oasis, Western Desert, Egypt	Jennifer Smith
Hydrology/ Geomorphology	Elizabeth Carrington	Southern Oregon University	Retrieving Recent Environmental Records from Contamination Trends in Dam Trapped Sediments, Gold Ray Dam, Oregon	William Elliott
Hydrology/ Geomorphology	Laura Craig	University of Wisconsin-Madison	Determining the Source of Groundwater in a Riparian Floodplain using Oxygen-18 and Deuterium Isotopes	Jean Bahr
Hydrology/ Geomorphology	Thomas Doggett	Arizona State University	Field Mapping of Snow and Ice Cover on Lake Mendota, Wisconsin: Validation of Autonomous On-board Classification and Detection of Cryospheric change.	Ronald Greeley
Hydrology/ Geomorphology	Kevin Hughes	Illinois State University	Sediment Abrasion vs. Solution in the Evolution of Karst Conduits	Eric Peterson
Paleontology/ Sedimentation	Joseph Daniel	Ohio University	Heads as Sediment Sorters: An Actualistic, CT-based Study in Taphonomy	Lawrence Witmer
Paleontology/ Sedimentation	Alicia Kennedy	Sam Houston State University	Excavation and Analysis of the Small Mammal Fauna from the Virginia Railway Cut Site, Free State, South Africa	Patrick Lewis

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Paleontology/ Sedimentation	Peter van Hengstum	McMaster University	Thecamoebians and Foraminifera as a Paleoenvironmental Tool in the Subterranean Flooded Cave Systems of Quintana Roo, Mexico	Eduard Reinhardt
Paleontology/ Sedimentation	Isaac Westfield	Baylor University	Sedimentation Fingerprinting on Pear Tree Bottom Reef, Jamaica Through Unstable Strontium Isotope Geochemistry	Rena Bonem
Petrology/ Geochemistry	Troy Baggerman	Western Washington University	Generation and Geochemistry of Late Pleistocene Andesite Lava Flows, Mt. Baker, WA	Susan DeBari
Petrology/ Geochemistry	Tracy Brockman	University of Cincinnati	Dynamics of Crystallization and Cooling in a Dike of the Umatilla Member of the Columbia River Basalt Group	Warren Huff
Petrology/ Geochemistry	Molly Cornell	San Francisco State University	Investigation of Possible Graphite Pseudomorphs after Diamond from the South Ural Mountains, Russia, using Multiple Techniques	Mary Leech
Petrology/ Geochemistry	Jennifer Glidewell	Auburn University	Petrographic Investigation of Drillcores Eyreville A and Eyreville B: Chesapeake Bay Impact Structure, Virginia	David King
Petrology/ Geochemistry	Lemmi Muia	University of Nairobi	Gold Enrichment Evolution in a Granitic Pluton: Insights from Rostermann Mine, Kakamega Gold Field, Kenya	Williams K. Biwott
Petrology/ Geochemistry	Cara Mulcahy	University of Tennessee- Knoxville	High-resolution C-S-O Isotopic Variation in Cambrian- Ordovician Carbonates of the Argentine Precordillera: Implications for Atmospheric Oxygenation	Linda Kah
Petrology/ Geochemistry	Aurel Persoiu Tiritu	University of South Florida	Reconstruction of Past Climate Changes Using ice in Caves as Source of Paleoclimatic Data	Bogdan Onac
Petrology/ Geochemistry	Rachel Stevens	Pitzer College	Can Compositional Variations in Late Pleistocene Marls of the Tule Valley Subbasin of Lake Bonneville be traced to climate variations 30 -14.5 ka?	Robert Gaines
Petrology/ Geochemistry	Jessica Wierdsma	McMaster University	Stable Hydrogen and Oxygen Isotopes in Plant Fragments from Shasta Ground Sloth <i>faeces</i> , Rampart Cave, Arizona	Darren Gröcke
Physics/ Astronomy	Kenneth Carrell	Texas Tech University	Substructure in the Galactic Halo	Ronald Wilhelm
Physics/ Astronomy	Kevin Croxall	Indiana University Bloomington	Abundances in the Super-Metal Rich Cluster NGC 6253	Constantine Deliyannis

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Physics/ Astronomy	Oleksiy Golovin	Truman State University	Infrared Photometry of Mira-type Variable Stars	Matthew Beaky
Physics/ Astronomy	Ryan Maderak	Indiana University Bloomington	Oxygen Abundances of Star Clusters in the Gallactic Disk	Constantine Deliyannis
Physics/ Astronomy	Anand Narayanan	Pennsylvania State University	Probing Cold Clouds in Damped Lyman-alpha Absorbers	Jane Charlton
Physics/ Astronomy	David Nidever	University of Virginia	Exploring the Stellar Halo of the Large Magellanic Cloud	Steven Majewski
Physics/ Astronomy	Gregory Pauley	Indiana University Bloomington	Studies of a Pyroelectric Crystal to Develop a Table-top Neutron Source	Richard van Kooten
Physics/ Astronomy	Mary Scott	North Carolina State University	Detecting Rotator Phase Dynamics in Monolayer Silane Films	Laura Clarke
Physics/ Astronomy	Jiajian Shen	Pennsylvania State University	An image study of Black Hole - Host galaxy relationships in Broad-Line Active Galactic Nuclei	Donald Schneider
Physics/ Astronomy	Leah Simon	University of Florida	Quasar Metallicities and Host Galaxy Evolution	Frederick Hamann
Physics/ Astronomy	Christine Simpson	Wesleyan University	Testing the Disk-locking Theory of T Tauri stars in IC348; and Photometric Observations of the Eclipsing Binary System KH15D	William Herbst
Physics/ Astronomy	Keeley Stevens	Worcester Polytechnic Institute	Improved Direct Force Balance Method for Lateral Force Calibration	Nancy Burnham
Physiology/ Functional Morphology	Victoria Arch	University of California-Los Angeles	The Peripheral Basis of Ultrasound Sensitivity in a Chinese Frog.	Peter Narins
Physiology/ Functional Morphology	David Dawkins	University of Georgia	Development of a Practical Method to Control Obesity: Using the Pig as an Animal Model to Test Effectiveness of Pre-meal Beverages to Induce Satiety and Control Caloric Intake	Michael Azain
Physiology/ Functional Morphology	Peter Dimoulas	University of British Columbia	The Contributions of Growth Hormone to Muscle Physiology in Transgenic Salmon.	Robert Shadwick
Physiology/ Functional Morphology	Jennifer Eudy	University of Virginia	Olfactory Learning: Analysis of Cortical Neurons During Acquisition of an Olfactory Task	Kurt Illig
Physiology/ Functional Morphology	Kaushik Ghosal	Miami University Ohio	Does Social Rank Formation Influence Neurogenesis?	Kathleen Killian
Physiology/ Functional Morphology	Justin Havird	University of Florida	The Evolution and Function of Cyclooxygenase in Ancestral Chordates	David Evans

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Physiology/ Functional Morphology	Bradley Hollidge	North Carolina State University	Calcium Responses in Perisynaptic Schwann Cells at the Aged Mouse Neuromuscular Junction	Jane Lubischer
Physiology/ Functional Morphology	Ava Howard	University of Georgia	Determining the Stomatal Contribution to Nighttime Water loss in Two Populus species.	Lisa Donnovan
Physiology/ Functional Morphology	Ana Jimenez	University of North Carolina at Wilmington	Tail-flipping in Crustaceans: a Model for Muscle Metabolic Design.	Stephen Kinsey
Physiology/ Functional Morphology	Ryan King	Florida Institute of Technology	Infrared vs. Visual Imaging: The striking Behavior of Pit Vipers and Pythons	Michael Grace
Physiology/ Functional Morphology	Danie Kueh	Western Michigan University	The role of Acetylcholine (ACh) in Preconditioning-induced Neuroprotection of Retinal Ganglion Cells (RGCs)	Cindy Linn
Physiology/ Functional Morphology	Thao Nguyen	Illinois State University	Effects of Citalopram or Duloxetine on Morphine-induced Immunosuppression	Laura Vogel
Physiology/ Functional Morphology	Julie Oestreich	University of Kentucky	The Effects of P2Y12 Polymorphisms on Platelet Receptor Density and Activation	Wendell Akers
Physiology/ Functional Morphology	April Sjoboen	Loma Linda University	Seasonal Hepatopancreas Fatty Acid Fluctuations of the Striped Shore Crab, <i>Pachygrapsus</i> <i>crassipes</i> Randall, 1839, in Southern California	Stephen Dunbar
Physiology/ Functional Morphology	James Strother	University of California-Irvine	Fluid Dynamics of Gill Ventilation in the Teleost Fish <i>Fundulus heteroclitus</i>	Matthew McHenry
Physiology/ Functional Morphology	Elizabeth Trampe	Carroll College	The Role of Voltage-Gated Calcium Channels in the Beneficial Effects of Electrical Stimulation on Wound Healing	Julie Rapps
Physiology/ Functional Morphology	Travis Wilcoxen	University of Memphis	Changes in Endocrine Function with Age and Reproductive Senescence in the Threatened Florida Scrub-Jay (<i>Aphelocoma</i> <i>coerulescens</i>)	Stephan Schoech
Psychology	Tamar Degani	University of Pittsburgh	Cognitive Consequences of Biliteracy - Effects of Reading Direction on Flexibility of Visual Attention	Natasha Tokowicz
Psychology	Abbey Eisenhower	University of California-Los Angeles	Building Relationships at School: An Intervention to Improve Early Teacher-Student Relationships for Children with Externalizing Behavior Problems	Bruce Baker

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Psychology	Aren Hunter	University of New Brunswick	Graphical Perception and Learning: A Physiological and Behavioral Examination of Graphical Processing	Lisa Best
Psychology	Jacquelyn McGill	St. Mary's College of Maryland	The Behavioral Effects of Diazepam in the <i>Locus Coeruleus</i> on Anxiety	Anne Marie Brady
Psychology	Teresa Micheli	George Mason University	Hippocampal Deficits Due to Elevated Zinc Consumption Assessed by the Trace Fear Conditioning Task.	Jane Finn
Psychology	Neha Navsaria	Temple University	Patterns of Acculturation and Resilience within the Asian-Indian Diaspora	Portia Hunt
Psychology	Todd Peterson	University of Wisconsin-Milwaukee	The Effects of Dexamethasone on Capillary Density in the Rodent	Rodney Swain
Psychology	Nicole Quinlan	Duke University	The Intergenerational Transmission and "Moralization" of Appearance and Achievement Values and Their Influence on Children's Contingencies of Self-Worth	Philip Costanzo
Psychology	Chelsea Reid	St. Mary's College of Maryland	Impaired Working Memory and Decreased Serotonin within the Hippocampus from an Escalating Dose of Methamphetamine in Periadolescent Rats	Anne Marie Brady
Psychology	Casimira Ruiz	Saint Mary's College	Cognitive Deficits Following an Escalating Dose of Methamphetamine	Anne Marie Brady
Psychology	Geertrui Spaepen	University of Chicago	When a Woman Talks to a Man, What is She Really Telling Him? An inquiry into the Fluctuations of Vocal Production and Voice Quality Indicators as Markers of a Woman's Fecundity and Mate Attraction.	Martha McClintock
Psychology	Doug VanderLaan	University of Lethbridge	Testing the Kin Selection Hypothesis for Male Homosexuality in Independent Samoa	Paul Vasey
Psychology	Angela Vavassis	Concordia University	The Evolutionary Significance of Vertical Visual Field Asymmetries in a Human and Rat Model	Michael von Grünau
Psychology	Peter Yeomans	Drexel University	The Effect of Posttraumatic Stress Disorder Psychoeducation on the Nature and Severity of Traumatic Stress Symptoms in a Burundian sample	Evan Forman

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Subject	Student	College/ University	Title	Mentor
Systematics/ Evolutionary Biology	Lillian Bloch	Villanova University	Genetic diversity in the sibling species <i>Transennella tantilla</i> and <i>T. confusa</i>	Michael Russell
Systematics/ Evolutionary Biology	Anthony Gamble	University of Minnesota, Twin Cities	Molecular Evolution in Vision Genes and the Multiple Origins of Diurnality in Geckos	G.F. Warren
Systematics/ Evolutionary Biology	Alexandra Herrera-Martinez	Universidad de Puerto Rico en San Juan	Taxonomic Review and affinities of the Puerto Rican Spiny Rats (<i>Rodentia, Echimyidae, Heteropsomyinae</i>)	J.P. Thomas
Systematics/ Evolutionary Biology	Hayley Lanier	University of Alaska Fairbanks	Body Size Clines in a Changing Climate? Testing hypotheses of Bergmannian Trends in an Alpine Lagomorph (<i>Ochotona collaris</i>)	Link Olson
Systematics/ Evolutionary Biology	Cristina Ledon-Rettig	University of North Carolina at Chapel Hill	Developmental Basis of Resource Polyphenism	David Pfennig
Systematics/ Evolutionary Biology	Jodell Linder	University of Georgia	Immune Function and Temperature in <i>D. melanogaster</i>	Daniel Promislow
Systematics/ Evolutionary Biology	Marcela Martinez Millan	Cornell University	Earliest Representatives of the <i>Asteridae</i> in the Fossil Record	William Crepet
Systematics/ Evolutionary Biology	Eric Pante	University of Louisiana at Lafayette	Population Connectivity in the Deep Sea: Investigating Intra- and Interspecific Genetic Variation Within the Genus <i>Metallogorgia</i> (Subclass <i>Octocorallia</i> , Family <i>Chrysogorgiidae</i>)	Scott France
Systematics/ Evolutionary Biology	Zachary Papper	Wayne State University	Evolution of Primate Regulatory Regions: A Comparative Genomic Analysis of LDHA and LDHB	Morris Goodman
Systematics/ Evolutionary Biology	Elizabeth Preston	Williams College	Linkage Disequilibrium Analysis of Southeast Asian <i>ovalocytosis</i> in Indonesians	Jason Wilder
Systematics/ Evolutionary Biology	Marilou Sison-Mangus	University of California-Irvine	Functional Diversification of Duplicate Blue Opsins in Lycaenid Butterflies	Adriana Briscoe
Tectonics/ Geophysics	Byron Adams	University of Cincinnati	Exhumation and Erosion Rates of the Lahul Himalaya, Northern India, as Constrained by (U-Th)/He Thermochronometry and Cosmogenic Surface Exposure Dating	Craig Dietsch
Tectonics/ Geophysics	David Gaines	University of Tennessee-Knoxville	Developing Near-surface Three-component (3C) Seismic Techniques for Imaging Shallow Out of Plane Reflectors in an Isotropic Medium.	Gregory Baker

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Tectonics/ Geophysics	Megan Loudermilk	University of Tennessee- Knoxville	Geophysical and Geochemical Analysis of Lacustrine Records for Determining Arctic Warmth Through Multiple Interglacial Periods	Gregory Baker
Tectonics/ Geophysics	Mark Millard	Baylor University	Linking Onshore and Offshore Data to Find Seismogenic Faults Along the Eastern Malibu Coastline	Vincent Cronin
Tectonics/ Geophysics	Justin Murphy	Washington State University	Strain Localization and the Development of Ductile Shear Zones: Structural Analysis of Granite Point, Lower Granite Reservoir, southeastern Washington State, USA.	Anthony Watkinson
Tectonics/ Geophysics	Robert Sas	San Francisco State University	Evaluation of the Mid-crustal "channel Flow" Model in Relation to Gneiss Dome Processes	Mary Leech
Tectonics/ Geophysics	Roberto Velarde	University of Texas at El Paso	Radionuclide Transport and Varying Mineral Characteristics in Dust Particles (Mineral Aerosols) on African, Asian and North American Soil	Thomas Gill