

PREVIOUS BIOLOGY HONORS GRADUATES

2012 HONORS GRADUATES

Student Name	Research Supervisor	Research Department	Thesis Title
Karan Agrawal	Karyn L. Bischoff	Vet Med	Identification of protoxins, mechanism of action and a microbial basis for Red Maple (<i>Acer rubrum</i>) Toxicosis in equines.
Olufunmilayo C. Agunloye	Patrick Stover	Nutritional Sciences	Insights into Nuclear Localization of Folate-Binding Protein and Disease Risk
Samuel Alperin	Christiane Linster	Neurobiology and Behavior	Rats do not engage their cholinergic systems for near threshold odor detection.
Taylor Baird	Samantha Brooks	Animal Science	Copy Number Variation of a Novel Pseudogene for <i>LCORL</i> in the Horse
Brian Alexander Barron	Anthony G. Hay	Microbiology	Investigation of Regulatory Elements Involved in N-Acetylglucosamine-Induced Inhibition of Curli Biosynthesis
Kathryn Blackley	Nelson Hairston	Ecology and Evolutionary Biology	Inbreeding and Potential for Evolutionary Rescue after Environmental Change
Serina Brady	Warren Allmon	Earth and Atmospheric Sciences	Implications of Landmark Analysis of Oligocene Camelid Endocranial Casts for Phylogeny and Brain Evolution
Ashley Brown	Matthew Hare	Natural Resources	Estimating the Effective Population Size of <i>Crassostrea virginica</i>
	Donna Cassidy-	Microbiology and	Constructing a Physical Map of the

Frances Chen	Hanley/Theodore Clark	Immunology	Tetrahymena thermophila Genome: Mapping Deletion Strains in a Binucleate System.
Catherine Cheng	Carl Hopkins	Neurobiology and Behavior	Morphological Correlates of Signal Development and Variation in Weakly Electric Mormyrid Fish
Raymond Chou	Michael Goldstein	Psychology	The Role of Social Interaction in Catalyzing Real-Time Changes in Song Development of the Zebra Finch (<i>Taeniopygia guttata</i>)
Aaron Cohen	Robert Weiss	Vet Biomedical Sciences	The Effect of Ribonucleotide Reductase Deregulation on Mitochondrial Function and Reactive Oxygen Species Production
Anna Dadhania	Warren Zipfel	Biomedical Engineering	Development of Monoclonal Tumors through the Application of the CreloxP Excision System
Timothy Dyster	Paul Sherman	Neurobiology and Behavior	Wilson's Disease and Protection from Tuberculosis
Rebecca Fellman	Paul Bowser	Vet Microbiology and Immunology	The Effect of Temperature Change on Viral Pathogenesis of Viral Hemorrhagic Sepsis Virus (VHSV) in Fathead Minnow (<i>Pimephales promelas</i>)
Robert Fetcho	Chris B. Schaeffer	Biomedical Engineering	Sub-Surface, Femtosecond Laser Incisions as a Therapy for Partial Epilepsy
Eva Franzova	Marci Scidmore	Vet Microbiology and Immunology	Characterization of the Intracellular Trafficking of <i>Chlamydia trachomatis</i> Elementary Bodies
Neha Gavai	Marci Scidmore	Vet Microbiology and Immunology	Analysis of Rab11-FIP3 Function in <i>Chlamydia trachomatis</i> Infected HeLa Cells
		Neurobiology and	Glucocorticoid and androgen signaling

Rachel Genova	Andrew Bass	Behavior	pathways diverge between 'singing' and 'non-singing' midshipman fish.
Eric Gordon	Esther Angert	Microbiology	Investigations of the Source, Distribution, Expression and Physiological Function of Thiaminase I
Alexandra Gribizis	Christiane Linster	Neurobiology and Behavior	Modeling Opposing Effects of $\alpha 1$ and $\alpha 2$ Noradrenergic Receptors in Main Olfactory Bulb Granule Cells
Sean Griffin	Tom Seeley	Neurobiology and Behavior	Do honey bees use the directional information in round dances to help them find nearby food sources?
Clair Han	Charles Aquadro	Molecular Biology and Genetics	Selective Advantage for Unpreferred Codons in <i>Drosophila melanogaster</i> genes
Susan Herrick	Joanne Fortune	Vet Biomedical Sciences	The Regulation of the Production of Estradiol and Progesterone by Bovine Fetal Ovaries
Marina Hoashi	Chris Fromme	Molecular Biology and Genetics	Investigation of New Cargo Proteins for the Novel Vesicle Coat Complex Exomer in <i>Saccharomyces cerevisiae</i>
Donna Jin	David Lin	Vet Biomedical Sciences	SPOCK Proteins Inhibit Neurite Outgrowth of Olfactory Sensory Neurons
Erik Johnson	Siu Sylvia Lee	Molecular Biology and Genetics	Dysfunction in the Mitochondrial Electron Transport Chain and the Role of CEP-1 in Mediating Longevity in <i>C. elegans</i>
Andrew Johnston	Ronald Booker	Neurobiology and Behavior	Regulation the Regulator: How Greatwall and PP2A-Twins Interact to Regulate the EGFR Signaling Pathway in the Development of the <i>Drosophila melanogaster</i> Eye

Emily Kearney	Anurag Agrawal	Ecology and Evolutionary Biology	How Plant Adaptation to Resource Availability Impacts Growth and Defense: A Field Experiment with 11 <i>Solidago</i> Species
Sun Woo Kim	Charles Aquadro	Molecular Biology and Genetics	Elucidating the Functional Role of a Conserved Metazoan Gene (CG18508) under Positive Selection in <i>Drosophila melanogaster</i>
Vishesh Kothary	Kenneth W Simpson	Vet Clinical Sciences	Patterns and Molecular Mechanisms of Resistance to Rifaximin in <i>Escherichia coli</i> Associated with Inflammatory Bowel Disease Honors
Anupama Kumar	Howard Howland	Neurobiology and Behavior	An Inexpensive Photorefractor for Screening for Myopia.
Vidhya Kumar	Barbara Strupp	Nutritional Sciences	The Cognitive and Neural Benefits of Perinatal Choline Supplementation in a Mouse Model of Down Syndrome and Alzheimer's Disease
Joshua Kisoo Lee	Christiane Linster	Neurobiology and Behavior	Effects of Innate Preferences for Commonly Used Odorants in a Forced Choice Odor Discrimination
Jina Lim	David Smith	Psychology	The Role of the Anterior Thalamus on Behavior in Early and Late Learning in a Contextual Learning Task
Scott Luro	David Stern	Plant Biology	RNase J Participates in PPR Protein-Mediated Maturation of Chloroplast mRNA
Ava Mainieri	Hudson Kern Reeve	Neurobiology and Behavior	Ecology Explains the Paradox of Rare Mutations in Cancer
Mrinalini Modak	James Casey	Microbiology and Immunology	Assessing the Stability of Viral Hemorrhagic Septicemia Virus in Post-Mortem Zebrafish.

Nathaniel Morris	Christiane Linster	Neurobiology and Behavior	Neural Activity of a Cholinergic Input to the Rodent Olfactory Bulb During Odor Discrimination
Michael Motley	Paul Soloway	Nutritional Sciences	Interdependency Between Two Epigenetic Modifications At Select Loci In Mouse Chromatin
Anthony Muscente	Warren Allmon	Earth and Atmospheric Sciences	Anomalous Preservation Potential of the Soft-Bodied Hydroid <i>Plumalina</i> Hall, 1858 in the New York Devonian
Alexis Mychajliw	Richard Harrison	Ecology and Evolutionary Biology	Origin and Timing of a Recent Insular Colonization of Muskrats, <i>ondatra zibethicus</i>
Jessica Natale	Jerrie Gavalchin	Animal Science	Effects of Individual Polybrominated Diphenyl Ethers Exposure on the Immune System
Justin Oh	Eugene Madsen	Microbiology	Genome-Guided Physiological Confirmation of Aromatic Carbon Degradation and Nitrogen Fixation by <i>Poloromonas naphthalenivorans</i> strain CJ2
Kate Orlofsky	Michael Webster	Neurobiology and Behavior	Type Matching in the Gray Catbird (<i>Dumetella carolinensis</i>)
So Hae Park	Samuel Cartinhour	Plant Pathology and Plant Microbe Biology	Analysis of the small RNA <i>spot 42</i> in the plant pathogen <i>Pseudomonas syringae</i> pv. <i>Tomato</i> strain DC3000
Christopher Patuwo	Claudia Fischbach	Biomedical Engineering	Breast cancer micro-environmental interactions promote bone metastasis through pre-metastatic niche formation.
		Ecology and	Dispersal by Overflows in a Rock-Pool

Kara Pellowe	Nelson Hairston	Evolutionary Biology	Metacommunity is Trophic-Level Specific
Alexander Reinaldo Pérez	Christiane Linster	Neurobiology and Behavior	A Computational Model of the Olfactory External Tufted Cell
Colette Lafontaine Picard	Siu Sylvia Lee	Molecular Biology and Genetics	HCF-1 inhibits SKN-1 to modulate stress resistance but not lifespan in <i>Caenorhabditis elegans</i> and Determination of enrichment regions for H3K27me3 and other low-signal, high-noise ChIP-seq data
Natalia Piland	David Winkler	Ecology and Evolutionary Biology	Tree Swallows (<i>Tachycineta bicolor</i>) Feeding on Wax Myrtle (<i>Morella cerifera</i>): Omnivory in the Floridian Winter
Redi Rahmani	David Deitcher	Neurobiology and Behavior	The elusive M52: Phenotypical characterization and genetic localization of a temperature-sensitive paralytic mutation in <i>Drosophila melanogaster</i> .
Sinthu Ranjan	Jun Kelly Liu	Molecular Biology and Genetics	Isolating and Characterizing <i>sma-9</i> Suppressor Mutations in <i>C. elegans</i> to Identify Novel Modulators of the BMP Pathway
Nischay Rege	Volker M. Vogt	Molecular Biology and Genetics	Role of Putative Dimer Interfaces in the Assembly of the Immature RSV Particle
Jamie Roden	Robert Weiss	Vet Biomedical Sciences	The DNA Damage Response as a Determinant of Therapeutic Sensitivity in Testicular Germ Cell Tumors
Caroline Rusk	Walter Koenig	Bird Population Studies	Vagrancy as a Measure of Long-Distance Dispersal in Cooperatively and Non-Cooperatively Breeding Species of Birds
Alessandro A.		Vet Biomedical	Controlling Neurogenesis: The Role of Jagged1

Bailetti Sáez	Dave Lin	Sciences	and Wnt Signaling on Neural Stem Cells Maintenance and Proliferation
Nicholas Saleh	Richard Harrison	Ecology and Evolutionary Biology	Reproductive Success and Body Size in the Cricket <i>Gryllus firmus</i>
Shina Satoh	Ahmed Ahmed	Molecular Medicine	Thermodynamic Characterization of Agonist and Antagonist Interactions with GluA3 S1S2 Binding Domain
Moira Scaperotti	Ron Harris-Warrick	Neurobiology and Behavior	Sublesional Changes to the Hindlimb Central Pattern Generator after Spinal Cord Injury in the Mouse: Investigating the Loss of Serotonin Transporter, and Dynamic 5-HT _{1A} Receptor Expression
Arielle Schaeffer	Jun Kelly Liu	Molecular Biology and Genetics	Identification and Genetic Mapping of Suppressor Mutations of a Gene, Sma-9, Required for Patterning in <i>C. elegans</i> Post-Embryonic Mesoderm
Katherine Scheibel	Gregory Martin	Plant Science	Characterization of the Plant Immune Response to Bacterial Pathogen-Associated Molecular Patterns
Matthew Schepel	Klaus Beyenbach	Vet Biomedical Sciences	The Effect of DMSO and DIOA on Transepithelial Fluid Secretion in Malpighian Tubules of <i>Aedes aegypti</i>
Sumeet Sharma	John T. Lis	Molecular Biology and Genetics	The Genomic Binding Profile of GAGA Element Associated Factor (GAF) in Drosophila S2 cells
Lindsey Szymczak	Jun Kelly Liu	Molecular Biology and Genetics	Characterization of <i>Sma-9</i> Suppressor Mutations to Discover New Modulators of the BMP-like Pathway in <i>C. elegans</i>

Mary Thompson	Anthony G. Hay	Microbiology	The Effects of Pyoverdine on Styrene Degradation by <i>Pseudomonas putida</i> F1
Jessica Tingle	Anurag Agrawal	Ecology and Evolutionary Biology	Interactions of Native and Exotic St. Johnswort with an Introduced Biological Control Agent
Kevin Toomer	Teresa Pawlowska	Plant Pathology	Mycoplasma-Related Endobacteria of Arbuscular Mycorrhizal Fungi: Distribution, Molecular Diversity, Evolutionary History, and Free-Living Capacity
Christina Wang	Gerald Feigenson	Molecular Biology and Genetics	A System for Making Negatively Charged GUV's and its Implications for Modeling Virus Assembly
James Wang	Claudia Fischbach	Biomedical Engineering	Progenitor Cells Enhance Breast Cancer Cell Proliferation by Modifying Tumor Tissue Mechanics
Yue (Linda) Wu	Barbara Strupp	Nutritional Sciences	The Effects of Maternal Choline Supplementation on a Mouse Model of Down Syndrome and Alzheimer's Disease
Jinhong Yang	Gerald Feigenson	Molecular Biology and Genetics	Study of Phase Boundary and Modulated Phase Behavior in the Quaternary SOPC/DOPC/DSPC/Cholesterol System
Thomas Yaros	Susan Suarez	Vet Biomedical Sciences	Sperm Binding in the Bovine Oviduct: The Differential Distribution of Annexins on Oviductal Epithelium
Jessica Ye	Dan Luo	Biomedical and Environmental Engineering	Study of a Multifunctional DNA Hydrogel-Coated Nanoparticle for Drug Delivery
Vedia Talya	Ruth Ley	Microbiology	Pregnancy Associated Changes in Total Bacteria and <i>Methanobrevibacter</i> spp. Counts

Yerlici in the Gastrointestinal Tract of Human Subjects

Eric Yu Alexander Nikitin Vet Biomedical Sciences The Role of Dicer and the MicroRNA-34 Family in Ovarian Carcinogenesis

Helen Yuan Scott Emr Molecular Biology and Genetics Regulation of Cell Signaling at Membrane Junction Sites

Jimmy Zhang J. T. Brenna Nutrition Identification of a Fatty Acid Desaturase Expression Quantitative Trait Locus.

Steven Zhang James Casey Vet Microbiology and Immunology Investigating the Stability and Infectivity of Viral Hemorrhagic Septicemia Virus in Post-Mortem *Danio rerio* within a Great Lake Setting

Yanqiu Zheng Fenghua Hu Molecular Biology and Genetics Progranulin regulation through its interacting partners: sortilin, galectins, and Fbx2.

2011 HONORS GRADUATES

Student Name **Research Department** **Thesis Title**

Mason Appel Plant Biology Biochemical and genetic analyses of *Arabidopsis thaliana* mutants to better understand the contribution of plastoglobules to chloroplast stress responses

Rohini Bagrodia Psychology Understanding the Level of Involvement of the Hippocampus, Anterior Thalamus and Retrosplenial Cortex in a Non-Contextual Learning Task

Evan Bander Biomedical Engineering Microvascular lesions as a driving force of Alzheimer's disease progression

Identification of *Mycobacterium avium* subspecies

Hannah Bell	Population Medicine and Diagnostic Sciences	<i>paratuberculosis</i> Antigen 85 Complex-Binding Motif on Fibronectin
Nicole Benvin	Molecular Medicine	Determination of Atlastin-1 Hereditary Spastic Paraplegia Mutant Crystal Structures
Marina Boushra	Microbiology and Immunology	A Bioinformatic Analysis of Putative Methyl-Accepting Chemotaxis Proteins in the <i>Epulopiscium</i> Genome
Alyson Brokaw	Ecology and Evolutionary Biology	Ontogeny of Thermoregulation and Feather Development in Tree Swallow (<i>Tachycineta bicolor</i>) Nestlings.
Christopher Brown	Biomedical Sciences	Jagged1 Inactivation Leads to Decreased Neurogenesis in the Subventricular Zone of the Embryonic Murine Brain
Nikita Chapurin	Biomedical Engineering	Cardiac Cellular and Tissue Engineering: Understanding Innate Tissue Properties and Modeling Disease” Cardiac Cellular and Tissue Engineering: Understanding Innate Tissue Properties and Modeling Disease
Krishnan Chhiba	Chemical and Biomolecular Engineering	In vivo synthesis of glycoproteins with human-like N-glycans in <i>Escherichia coli</i>
Audrey Chun	Biomedical Sciences	The Effects of Promoter Structure, Cell Signaling, and Transcription Factor Activation on the Expression of Human Chorionic Gonadotropin Genes
Derek Clay	Molecular Biology and Genetics	Identifying Variation in X-linked Genomic Imprinting in <i>Drosophila melanogaster</i>
Erica Crump	Nutritional Science	The relationship between nutritional status and physical activity in female Indian tea pluckers: A study of iron status, body mass index, and physical activity
Preshita Date	Psychology	The Effects of Appetitive and Aversive Odor-Taste Conditioning on Discrimination Ability in Rats

Douglas Deutsch	Molecular Biology and Genetics	Plant Screening for Novel Epigenetic Chemotherapeutics: Chemical Prospecting for Histone-Deacetylase Inhibitors
Deirdre Dulak	Psychology	Effects of Social Stimuli on Testosterone, Aggression, and Fighting Behavior in Male Golden Hamsters (<i>Mesocricetus auratus</i>)
Nathaniel Edelman	Molecular Biology and Genetics	piRNA Primary Transcript Data is Aberrant in <i>Drosophila</i> Interspecific Hybrids
Laurent Ehrlich	Food Science	Molecular Dynamics Simulation of Serotonin and Glucose in Aqueous Solution
Jae Yong Eom	Nutritional Science	Ubiquitination of SHMT1 regulates <i>de novo</i> nuclear thymidylate biosynthesis
Andrew Fister	Molecular Biology and Genetics	Quantification of Flight Variability within and between Populations of <i>Drosophila melanogaster</i>
Laura Fox	Neurobiology and Behavior	Effects of 17- β Estradiol on Memory in the Olfactory Bulb of Male Mice
Tommy Fu	Clinical Sciences	Mesenchymal Stem Cells Suppress Pro-Inflammatory Cytokine Expression in an Osteoarthritic Chondrocyte Co-culture Model
Adriana Gata	Ecology and Evolutionary Biology	<i>Batrachochytrium dendrobatidis</i> Emergence in Central America: Testing the Spreading
Samantha Goff	Biomedical Sciences	Spock proteins affect olfactory sensory neuron outgrowth in primary culture
Arjun Gokhale	Clinical Sciences	Regulation of Matrix Metalloproteinases by IL-21 and SDF-1 α

Alexander Gorovits	Molecular Medicine	An Investigation of Regulatory Properties and Potential Inhibitors of Proteins Involved in Biofilm Formation
Dean Holcomb	Plant Biology	Morphological and Molecular Variation in Teasel (<i>Dipsacus</i> , Dipsacaceae) in Central New York
Laura Hou	Neurobiology and Behavior	Vocal analysis of yodels of the Common Loon, <i>Gavia immer</i> , using mel-frequency cepstrum coefficients
Katarzyna Hozer	Psychology	Odor concentration and minute difference in chemical structure as learned qualities of olfactory perception
Tiffany Jacobson	Psychology	The effects of anisomycin on consolidation of olfactory memory in mice
Ah-Reum Jeong	Plant Biology	Xylem cell type patterning mediated by a dose-dependent transcriptional regulator
Carolyn Junior	Nutritional Science	Evaluation of the Ability of Cysteine Dioxygenase in Extra-hepatic Tissues to Compensate for Knockdown of Hepatic Cysteine Dioxygenase
Jason Kaelber	Virology	Adaptive evolution in the transferrin receptor reveals that canine parvovirus is a re-emerged pathogen in dogs and identifies sites which modify the capsid-receptor interaction
Hilary Kates	Ecology and Evolutionary Biology	The Evolution of Luminescent Courtship Signals in Caribbean Ostracods
Lindsay Knable	Biomedical Sciences	Bovine Seminal Plasma Protein A3 (BSPA3) is Modified by Bovine Sperm After Cryopreservation
Meghan Kusko	Nutritional Science	Dose-Response Analysis of Red Blood Cell Folate Suggests “Supra-physiologic” Folate Status in Lactating Women Consuming a Prenatal Vitamin Supplement

Jamie Langenhan	Plant Pathology and Plant Microbe Biology	The genetic structure of <i>Cucumber mosaic virus</i> in <i>Phaseolus vulgaris</i> in New York
Sean Lawless	Biomedical Engineering	Disorganized Dendrites: Dynamics of Neuronal Development and Synaptogenesis in Murine WT and reeler Models through Multiphoton Microscopy
Christina Li	Neurobiology and Behavior	Synaptic morphology, manifestation of neuronal excitability in <i>Drosophila</i> bang-sensitive and <i>pumilio</i> mutants at the larval stage
Elisha Lim	Molecular Biology and Genetics	Analysis of the ATPase domain of <i>MLH3</i> reveals differential functions of MLH1-MLH3 in vegetative growth and meiosis
Sarah Longo	Ecology and Evolutionary Biology	Evolution of the Actinopterygian Gas Bladder: Insights from High Resolution 3D Images of the Arterial Vasculature of Basal Osteichthyans
Miles Luo	Ecology and Evolutionary Biology	Climate Change and Temperature Effects on the Breeding Success of Tree Swallows (<i>Tachycineta bicolor</i>)
William Mills	Psychology	Elucidation of an olfactory deficit in the transgenic APP/PS1 Alzheimer's mouse model through behavioral paradigms and complementary imaging methodologies.
Donna Molfetto	Ecology and Evolutionary Biology	Historic Trends in Deuterium (δD) in Bird Feathers
Jamie Moore	Molecular Biology and Genetics	Genetic Variation in Copulation Duration in <i>Drosophila</i> <i>melanogaster</i>
Lauren Neurendorf	Animal Science	Changes in Fecal Microbial Populations in Horses Maintained on Various Diets

Bertheleau Ngakam	Molecular Biology and Genetics	A Genetic Screen for Arf1 Mutants that Disrupt a Transport Pathway in <i>Saccharomyces cerevisiae</i>
Gabriel Otte	Biomedical Engineering	Relationship Between Microvascular Dysfunction and Amyloid Plaques in Mouse Models of Alzheimer's Disease
Samantha Palmaccio	Biomedical Sciences	Deregulation of the miR-376b/cIAP1 pathway in cancer stem cells and its role in mammary carcinogenesis
Mira Patel	Microbiology and Immunology	Feline Coronavirus Open Reading Frame 3c encodes a golgi-localized double membrane-spanning protein interacting with the viral spike protein
Amanda Pawlak	Nutritional Sciences	Longitudinal Characterization of Follicle Populations in Women with Polycystic Ovary Syndrome: A Pilot Study
Gary Peng	Molecular Medicine	Mechanisms of Membrane Deformation by Two Non-Canonical F-BAR Proteins, PACSIN1 and srGAP2
William Podlaski	Neurobiology and Behavior	A computational toolkit for analyzing respiration-synchronized neural activity in the rat olfactory bulb
Chase Rakowski	Ecology and Evolutionary Biology	The role of Trinidadian guppy phenotype and light in shaping stream community structure
Benjamin Ranard	Biomedical Sciences	The role of microRNA-34b/c in normal development and cancer
Amy Rayo	Food Science	Optimization of Anti-cancer Drug Cytotoxicity with Poly(3-hydroxybutyrate) Granules
David Rollins	Psychology	Recognition Memory Produces Differential Fos Expression in the Golden Hamster Brain

Pooja Sarkar	Biomedical Sciences	Utilizing MicroCT to Study Placental Vascular Defects and Potential Therapeutic Effects of VEGF in the BPH/5 Model of Pre-eclampsia
Kurt Scavelli	Biomedical Sciences	Identification of Flotillin-1 and Flotillin-2 As Novel Interacting Proteins with the Gonadotropin Releasing Hormone Receptor in Membrane Rafts
Cody Schlaff	Biomedical Engineering	Optimization of Novel Thermo-Gelling Tri-Block Co-Polymeric Carriers for the Delivery of Paclitaxel for the Treatment of Glioblastoma Multiforme
Renee Sears	Molecular Biology and Genetics	RNA Expression Differences in <i>Wolbachia</i> Infected and Cured <i>Drosophila melanogaster</i>
Anish Shah	Biomedical Sciences	Cloning and Localization of an Annexin from Malpighian (Renal) Tubules of the Mosquito <i>Aedes aegypti</i>
Erica Sher	Neurobiology and Behavior	Temporal Coding of Signal Variants in a Mormyrid Electric Fish.
Natalia Shylo	Molecular Biology and Genetics	Parameters That Determine the Interaction of ZFP568 With Trim28 and Their Effects on ZFP568 Activity
Anna Sofine	Food Science	An Intein Based Protein Conjugation System That Utilizes Selenocysteine as a pH Sensitive Cleavage and Labeling Element
Lauren Strazzulla	Plant Biology	Preliminary Investigation of DNA Barcoding with ITS, <i>rbcL</i> and <i>matK</i> in the Genus <i>Quercus</i>
Cathy Su	Entomology	Multiple Evolutionary Origins of Knockdown Resistance (kdr) in Pyrethroid-Resistant Colorado Potato Beetle, <i>Leptinotarsa decemlineata</i>

Gabrielle Van Patten	Neurobiology and Behavior	Immunohistochemical Quantification of 5HT _{2C} Receptors and Ca _v 1.3 Channels after Spinal Cord Injury in the Upper Lumbar Mouse Spinal Cord
Yiliu Wang	Neurobiology and Behavior	Developing a Trans-neuronal Tracer to Label Connected Neurons in Zebrafish
Katherine Wilhelmy	Molecular Biology and Genetics	Crystallization Studies of the Human Sac2 Phosphatase's Unique Domain
Anni Wong	Nutritional Sciences	Effect of Print Advertisement on Food Intake
Patrick Wu	Molecular Biology and Genetics	She1, Ldb18, and Stu1: <i>Saccharomyces cerevisiae</i> Microtubule-Associated Proteins Involved in Mitotic Spindle Function
Raymond Wu	Molecular Biology and Genetics	Probing Heat Shock Factor with RNA Aptamers Generated by a Multiplex SELEX Platform
Jacob Wynne	Ecology and Evolutionary Biology	Models for Phage Therapy with Reduced Bacterial Lysis at High Population Density
Jason Yang	Biomedical Sciences	The Effects of Small Molecule VU573 and Bisindolylmaleimide I on the Fluid Secretion Rates of the Malpighian tubules of <i>Aedes Aegypti</i>
Dian Yang	Molecular Biology and Genetics	Biochemistry of a Mutant, Cancer-Causing DNA Licensing Protein MCM4
Lyla Youssef	Molecular Medicine	Growth and Regulation of Rho GTPase Transformed Cells: A Possible Connection Between the Focal Adhesion Kinase and the Tumor Suppressor DLC1
Rebecca Zuckerman	Molecular Biology and Genetics	Identifying Genes that Interact with Calcineurin During Egg Activation in <i>Drosophila melanogaster</i>

2010 HONORS GRADUATES

Student Name	College	Research Supervisor	Research Department	Level of Honors	Thesis Title
Anna K Barker	Arts	John Schimenti	Biomedical Sciences	Honors	An investigation of embryonic lethal mutations L5Jcs11 and L5Jcs13, induced by ENU mutagenesis in the rump white inversion region of mouse chromosome five
Stacy L Biddlecomb	Arts	Bernd Blossey	Natural Resources	Honors	Assessing Differences in <i>P. australis</i> Populations: An Evaluation of Plant Traits and Insect-Host Interactions
Christine Bricault	A&LS	Keith Perry	Plant Pathology	Highest Honors	Alteration of intersubunit acid-base pair interactions at the quasi-threefold axis of symmetry of Cucumber mosaic virus disrupts aphid vector interactions
Neva Castro	Arts	Sondra Lazarowitz	Plant Pathology & Plant Microbe Biology	Honors	Expression of SYTE and SYTC during <i>Arabidopsis thaliana</i> Development
Diana Chen	Arts	Sylvia Lee	Molecular Biology & Genetics	High Honors	Involvement of the Dynamin-Related Protein DRP-1 in the Insulin-like Signaling Pathway to <i>Caenorhabditis elegans</i>
Ina Chen	Arts	William Brown	Molecular Biology & Genetics	High Honors	Possible Connection Between Phospholipase A2 Activity and Dynein-Mediated Transport
Serena P Chiang	A&LS	Robin L Davisson	Biomedical Sciences	Honors	Elucidating the Etiology of Preeclampsia through Investigation of <i>Thbs2</i> and <i>Gcm1</i>
Erin T Chu	A&LS	Nathan Sutter	Medical Genetics, Vet Clinical Sciences	Honors	Skeletal Size and Shape Diversity in the Horse: Quantification of skeletal phenotype and a candidate gene screen for skeletal trait variation in <i>Equus caballus</i>
Stephanie Chu	A&LS	Patrick Stover	Nutritional Sciences	Honors	Interactions between Iron and Folate Metabolism using <i>Fth</i> and <i>cSHMT</i> knockout mouse models
Rebecca E Daley	A&LS	Christine Goodale	Ecology & Evolutionary Biology	Honors	Hydrological and climatic controls on watershed export in an aggrading New Hampshire forest
			Plant Pathology &		Characterization of a possible role of <i>Mai1</i> in effector-triggered immunity in <i>Nicotiana</i>

Benjamin A Diner	Arts	Gregory Martin	Plant Microbe Biology	Highest Honors	benthamiana Lawrence Du Arts Richard Harrison Ecology & Evolutionary Biology Honors Developing sex-linked markers for the European corn borer (<i>Ostrinia nubilalis</i>)
Madeline N Dunfee	A&LS	Alex Flecker	Ecology & Evolutionary Biology	Honors	Understanding the effects of agriculture on stream food webs based on stable isotope analysis
Carly A Elston	Arts	Andre Kessler	Ecology & Evolutionary Biology	High Honors	The Role of Scents for Prey Attraction in the Carnivorous Pitcher
Maxine R Fields	A&LS	Paul D Soloway	Nutritional Sciences	Honors	The Possible Role of Xist in Regulating Methylation of Rasgrfl in Mice
Nathan Franck	Arts	Anthony Hay	Microbiology	Honors	Bacterial Two-Hybrid Analysis of In Vivo Interactions Between SigmaE and YbcQ a Putative Q-like antiterminator Protein
Joanne F Garbincius	Arts	Robert Gilmour	Biomedical Sciences	Honors	Expression Patterns of Gap Junction Proteins Connexin 40 and Connexin 43 in the Purkinje Fibers of German Shepherd Dogs with Inherited Ventricular Arrhythmia
Kevin F Gardner	A&LS	Carl Hopkins	Neurobiology & Behavior	High Honors	Analysis of Male Agonistic Interactions in the Weakly Electric Fish, <i>Brienomyrus brachyistius</i> (Mormyridae) using a New Technique for Separating Electric Discharges
Philia Gau	A&LS	David Lin	Biomedical Sciences	High Honors	Air-assisted intranasal viral delivery to the olfactory epithelium and lung: An enhancement for studying neurodegeneration in the mouse olfactory epithelium
Lee M Gerwitz	A&LS	Robert Weiss	Biomedical Sciences	High Honors	The Effects of Partial Hus1 Impairment on Tumorigenesis
Patricia C Green	A&LS	Susana Mendez	Baker Institute for Animal Health	High Honors	The antibiotic pyrazinamide as a new antileishmanial drug
Michael C Grundler	Arts	Kelly Zamudio	Ecology & Evolutionary Biology	Highest Honors	Ecological Specialization Promotes Spatial Genetic Structure In Stream-Breeding Amphibians
Charlene S Hoi	A&LS	Tudorita Tumbar	Molecular Biology & Genetics	Highest Honors	RUNX1 Function In Mouse Skin Tumor Formation

Iris A Holmes	Arts	Kelly Zamudio	Ecology & Evolutionary Biology	Highest Honors	Genetic consequences of recent range expansions by the Boreal toad in Southeast Alaska
Suganthi Kandasamy	Arts	June Nasrallah	Plant Biology	Honors	Identification of Candidate Rapidly-Evolving Reproductive Genes in Arabidopsis
JungWoo Kim	Arts	Hening Lin	Chemistry and Chemical Biology	High Honors	Investigating the Acyl-group Specificity of Sirtuins
Thomas S Kraft	Arts	Saskyavan Nouhuys	Ecology & Evolutionary Biology	Highest Honors	Apparent Competition and Parasitoid-Host Interactions in Two Congeneric Lepidopteran Species
Kathleen LaBarbera	Arts	Irby Lovette	E&EB/ Lab of Ornithology	High Honors	Breeding synchrony cannot explain extra-pair paternity rate variation in northern temperate and southern temperate House Wrens (<i>Troglodytes aedon</i>)
Lucy X Li	Arts	Joel Baines	Microbiology & Immunology	Honors	Protein-Protein Interaction of Tegument Proteins, VP11/12 and VP13/14, in Herpes Simplex Virus Type-1 Virions
Alice Y Lu	A&LS	Volker Vogt	Molecular Biology & Genetics	Honors	Characterization of RSV Gag Incorporation and Trafficking into Virus-like Particles
Rong Ma	Arts	Robert Raguso	Neurobiology & Behavior	Honors	Geographic Variation in Floral Signals: Do perfumes have local dialects?
Lauren M Maistros	Arts	Warren Allmon	Earth and Atmospheric Sciences	Honors	Convergent evolution of an extreme parietal callus in fossil caenogastropods: Constructional morphology and microstructure analysis
Christina L Masco	Arts	Tom Seeley	Neurobiology & Behavior	Honors	Parental Recognition in the Great Black-Backed (<i>Larus marinus</i>)
Grace A Masters	A&LS	Paul Sherman	Neurobiology & Behavior	Highest Honors	Host-parasite specificity and local host adaptation help to favor dispersal as a mechanism for anciently asexual bdelloid rotifers to avoid extinction by fungal parasites
Justine M Olszewski	Arts	Eric Alani	Molecular Biology & Genetics	High Honors	A role for the XBP1 gene in modulating SPO11 function in yeast meiosis
Christian K Owusu	Arts	Susana Mendez	Baker Institute for Animal Health	Honors	The Therapeutic Potential of Thymosin beta-4 against Cutaneous Leishmaniasis

Vinay L Patel	A&LS	Ronald Harris-Warrick	Neurobiology & Behavior	High Honors	Cloning and Characterization of slo Family Potassium Channel Isoforms in the Lobster Nervous System
Amanda J Podolski	Arts	Marla Lujan	Nutritional Science	Honors	The Phenotypic Spectrum of Over One Hundred Consecutive Women Evaluated for Polycystic Ovary Syndrome
India A Reddy	Arts	Joseph Fetcho	Neurobiology & Behavior	Highest Honors	Morphological and developmental patterning of excitatory and inhibitory interneurons in the larval zebrafish hindbrain and In vivo imaging of synaptic plasticity during sleep
Jane Rhyu	Arts	David L Deitcher	Neurobiology & Behavior	Honors	Localization and phenotypical characterization of M52, a novel temperature-paralytic seizure enhancer in <i>Drosophila melanogaster</i>
Julia M Rosenberg	Arts	Ken Kempfues	Molecular Biology & Genetics	Honors	Interaction of PAR-2 and LGL-1 with RAB Trafficking and RCD-1-Like Proteins in the early <i>Caenorhabditis elegans</i> Embryo
Daniel P Salisbury	A&LS	Charles Walcott	Neurobiology & Behavior	Honors	What's in a wail? The presence of individual characteristics in common loon, <i>Gavia immer</i> , vocalizations
Laura F Seeholzer	A&LS	Laura Harrington	Entomology	High Honors	Sperm usage patterns in the dengue vector mosquito, <i>Aedes aegypt</i>
Lindsay G Serene	A&LS	Irby Lovette	Ecology & Evolutionary Biology	Honors	Ancient DNA Reveals a Mitochondrial Cline across a Classic Avian Hybrid Zone
Madeleine M Stone	Arts	Christine Goodale	Ecology & Evolutionary Biology	Honors	Carbon-Degrading Enzymes: Basic Kinetics and Response to Temperature
John A Stupinski	Arts	Robin Davisson	Biomedical Sciences	High Honors	Heart Failure and the Central Nervous System: Myocardial Infarction-induced AP-1 activation and the Paraventricular Nucleus
Tomomi Takada	Arts	Amy McCune	Ecology & Evolutionary Biology	Honors	Movements and habitat use by bowfin (<i>Amia calva</i>) in Oneida Lake
Emily S Taub	A&LS	Valerie Reyna	Human Development	Honors	Alzheimer's Disease, Mild Cognitive Impairment, and ApoE: What does epsilon4 Really Predict?
Michelle C Tong	Arts	Holger Sondermann	Molecular Medicine	Honors	EHD1 as a Potential Activator of Autoinhibited PACSIN1

Shawna N Tonick	A&LS	Mariana Wolfner	Molecular Biology & Genetics	Honors	The Role of Female Proteins in the Proteolytic Processing Ovulin in <i>Drosophila melanogaster</i>
Justin L Torok	A&LS	Holger Sondermann	Molecular Medicine	Honors	Adding to the Repertoire of Genetically-Encoded Calcium Indicators: Construction and Characterization of RCaMP2
Chia T Tseng	A&LS	Douglas Fantczak	Baker Institute for Animal Health	High Honors	Molecular Identification of the Equine Major Histocompatibility Complex and an Investigation of its Role in Reproduction
Nicholas W VanKuren	A&LS	Teresa Pawlowska	Plant Pathology & Plant Microbe Biology	Highest Honors	Patterns of ribosomal RNA gene evolution in arbuscular mycorrhizal fungi
Mitch J Walters	A&LS	David Winkler	Ecology & Evolutionary Biology	Honors	Comparing female characteristics to egg and yolk size in the Chilean Swallow (<i>Tachycineta meyeni</i>): insights from non-destructive photographic techniques
Li Wang	A&LS	Klaus Beyenbach	Biomedical Sciences	Highest Honors	Localization and Expression of a SLC4-like Cl ⁻ / HCO ₃ ⁻ Exchanger in Renal Tubules of Adult Female Yellow Fever Mosquito <i>Aedes aegypti</i>
Wendy M Wang	A&LS	W. Lee Kraus	Molecular Biology & Genetics	Honors	The Roles of NAD ⁺ -related Enzymes in Neuronal Gene Regulation
Victoria A Wells	A&LS	Maria Garcia	Molecular Biology & Genetics	Honors	Characterization of the Subcellular Localization of ZFP568, a Member of the Krüppel-associated Box Domain Zinc Finger Protein Family
Aaron G Wexler	A&LS	Alan Collmer	Plant Pathology & Plant Microbe Biology	Honors	PSPTO4723 Controls the Production of the Coronamic Acid Moiety of Coronatine in <i>Pseudomonas syringae</i> pv. <i>tomato</i> DC3000
Ellen C Woods	A&LS	Anurag Agrawal	Ecology & Evolutionary Biology	High Honors	Latitudinal Lines in Variation Among Populations of Common Milkweed (<i>Asclepias syriaca</i>)
Cheng Zeng	A&LS	Jerry Feigenson	Molecular Biology & Genetics	Honors	Preparing Giant Unilamellar Vesicles through sequential monolayer assembly method
			Plant		

Jingwei Zhang	A&LS	Gregory Martin	Pathology & Plant Microbe Biology	Honors	Functional analysis of the role of Mai5, MAPKKKa, and MAPKKK in plant innate immunity.
Judy Y Zheng	A&LS	Gerald Feigenson	Molecular Biology & Genetics	Honors	Phase Boundaries between Macroscopic and Nanoscopic Domains in a 4-Component Bilayer Mixture, DOPC/POPC/DSPC/Cholesterol
