

**Faculty for Undergraduate Neuroscience Poster Session
Society for Neuroscience Meetings, Chicago IL
October 19, 2009**

FUN Travel Award Winners:

Student	Advisor	Institution	Abstract title
1Akeifi, Courtney	Tetel, M.J.	Wellesley College	Steroid receptor coactivator-1 (SRC-1) and SRC-2 are coexpressed with progesterone receptors and regulated by estradiol in female mouse brain
2Bajnath, Adesh	Brumberg, J. C.	Queens College, CUNY	Dendritic spine density is determined by the orientation of the parent dendrite
3Barkley- Levenson, Amanda	Parfitt, K.	Pomona College	The modulatory effects of chronic restraint stress on spatial learning and memory and synaptic plasticity in rats
4Caroway, Megan	Haik, K. L.	Northern Kentucky University	Stereological evaluation of the neuroanatomical effects of thiamine depletion in a rat model of Wernicke- Korsakoff Syndrome
5Chang, Eric	King, J. T.	Pomona College	The effects of panax ginseng extract and constituent ginsenosides on long term synaptic plasticity in rat hippocampal slices
6Ehrenberg, Kathryn	Kline, A.E.	University of Pittsburgh	A rehabilitation-relevant enrichment paradigm facilitates neurobehavioral recovery after experimental traumatic brain injury
7Gimenez, Gustavo	Bettica, A.	Manhattanville College	Structural correlations between antioxidant mechanisms and neuroprotective efficacies of catechol O-dihydroxylated and O-methylated analogues of quercetin after induced neurotoxicity in B35 neuroblastoma cells in vitro
8Girasole, Ally	Hardwick, J.C.	Ithaca College	Changes in sensitivity to norepinephrine, acetylcholine, and angiotensin II
9Goldman, Michael	Reich, C.G.	Ramapo College of New Jersey	Chronic mild stress modulation of trace fear conditioning: gender effects
10Hadley, Michael	Reynolds, E. R.	Lafayette College	A new variable correlating with information integration in networks
11Heidelberg, Laura	Fisher, J.L.	University of South Carolina	Effect of the anxiolytic SB-205384 on recombinant GABA _A receptors

12Kohtz, Amy	Frye, C.A	The University at Albany-S.U.N.Y	Cocaine's dose-dependent facilitation of anti-anxiety and sexual behavior is predicted by midbrain levels of 3alpha,5alpha-THP among female rats
13Krock, Rebecca	Herzog ,E. D.	Washington Univ. in St. Louis	Probing neuronal connectivity in the mammalian circadian pacemaker
14Meyer, Natasha	Lom, B. M.	Davidson College	Zebrafish motoneuron axonal pathfinding is compromised by enhanced cholinergic activity
15Robinson, Mercedes	Ramirez, J.J.	Davidson College	Effects of the interlesion interval on the synaptic efficacy of the crossed temporodentate pathway after progressive entorhinal cortex lesions in rats
16Roseman, Alexander	Thornton, J.E	Oberlin College	Estradiol alleviates cognitive deficits induced by sub-chronic phencyclidine administration in ovariectomized rats
17Walker, Lauren	Rebec, G. V.	Indiana University	Altered neuronal firing patterns in motor cortex (M1) of the R6/2 model of Huntington's disease
18Wield, Alyssa	Kalil, R. E.	Univ. of Wisconsin	Nestin-positive cells in the ependymal cell layer of the third ventricle in the adult rat brain
SOMAS Student Posters			
19Chikwem, Ndubisi	Baskerville, K.	Lincoln University	Neurodegeneration of Cortical Rat Neurons by P301L Mutated Tau Protein
20Ibanez, Natalia	Gabel, L. A.	Lafayette College	Increased Seizure Susceptibility in C57Bl/10J mice with Neocortical Ectopia
21Leal, Gabriel	Martinez Acosta, V. G.	University of the Incarnate Word	Stem Cell Recruitment and Inductive Signaling during Neural Regeneration in the California Blackworm, <i>Lumbriculus variegatus</i> .
22McBride, Benora	Calin-Jageman, R.J.	Dominican University	Behavioral, physiological, and genetic analysis of habituation of the <i>Aplysia</i> tail-elicited siphon withdrawal reflex
Undergraduate Student Research Posters			
23Amatya, Christina	Ramakrishnan, L.	St. Cloud State University	Behavioral Effects of Scopolamine in Planaria
24Apostolidis, Steven	Schmitzer-Torbert, N.	Wabash College	The infralimbic cortex is required for the facilitation of habit learning by cocaine in rats
25Baptista, Sheryl	Shulz, J.	Occidental College	Identification of novel venom peptide neurotoxins from <i>Conus catus</i>

26 Barcus, Karina-Mikayla	Gittis, A.	Westminster College	Brain Awareness as a laboratory project in an undergraduate behavioral neuroscience class
27 Batties, Allison	Morrison, M. E.	Lycoming College	Brains Are Us! Learning by teaching: Neuroscience education in elementary schools with undergraduates as activity leaders
28 Bence, Nina	Cleland, C.	James Madison University	Kinematic tail withdrawal strategy of the nociceptive withdrawal response in spinalized rats
29 Benick, Sophia	Wiertelak, E.	University of St. Thomas	The effect of acupuncture at Zusan Li (ST 36) and Shang-Ju-Xu (ST 27) on NMDA-mediated nociception in the rat
30 Bennion, Doug	Edwards, J.	Brigham Young Univ	Learning and Memory Modulation by Activation of the Hot Pepper Receptor TRPV1 Modulation of Synaptic Plasticity in the Hippocampus
31 Berger, Sara	Wiertelak, E.	Macalester College	I Feel Your Pain: Exploring the role of the human mirror neuron system and its extensions in the observation of nociception
32 Bleda, Michelle	Ramirez, J.J.	Davidson College	Fimbria-Fornix transection impairs performance on a delayed non-matching to position task
33 Bledsoe, Adam	Foster, G.L.	University of South Dakota	Alleviating anxiety behavior caused by early-life social isolation through corticotrophin releasing factor 2 receptor antagonism
34 Bonnick, Kristine 35 Boone, Kelli	Calin-Jageman, I. McGrew, L.	Dominican University Belmont University	Preliminary microarray and qPCR analysis of changes in gene expression immediately following long-term sensitization of the <i>Aplysia</i> tail-elicited siphon withdrawal reflex The effects of serotonin and nicotine treatment on working memory in zebrafish
36 Bradley, Sharonda	Tilden, A.	Colby College	Melatonin MT2 Receptor Activity in Fiddler Crab and Rat Neuronal Tissue
37 Breitenberg-Scavuzzo, Christina	Conway, B.	Wellesley College	A Rodent Model for View-Invariant Object Recognition
38 Buff, Tim	Muir, G.	St. Olaf College	The Role of Head Direction Cells in Navigational Behavior
39 Cass, Daryn	Tseng, K.Y.	Lake Forest College	Cortical metabolic neuroadaptation after repeated cocaine injection and withdrawal depends on the postnatal age by which drug exposure onset is given
40 Cefalu, John	Chirhart, S.	Centenary College of Louisiana	Expression Studies of Hu-Cox-2-Luc promoters in ARPE-19 cells

41	Chung, Michael	Dunlap, K.	Trinity College	Brain cell proliferation is enhanced by natural environment and breeding season in adult electric fish, <i>Brachyhyopomus gauderio</i>
42	Corriveau, Jennifer	Glenn, M.J.	Colby College	Preventing Severe Psychosis: Anti-Schizophrenic Properties of Supplemental Choline in a Rat Model of Schizophrenia
43	Dahlen, Jeff	Urban, N.	Carnegie Mellon University	Morphological Analysis of Activity Reduced Adult Born Neurons in the Mouse Main Olfactory Bulb
44	Dawit, Sarah	Matsui, J.	Scripps College	Identifying h3 histamine receptor antagonists as novel subunit-selective n-methy-d-aspartate receptor antagonists
45	Della Vecchia, Margaret	Rauhut, A.S.	Dickinson College	Effects of Noradrenergic Antagonists on the Unconditioned and Conditioned Hyperactive Responses to Methamphetamine in Mice
46	Dickinson, Kathy	Mozzachiodi, R.	Texas A&M Univ.- Corpus Christi	Food satiation produces a long-term suppression of the consummatory phase of feeding behavior in Aplysia
47	Doers, Matt	Levandoski, M.	Grinnell College	Probing conformational motion with a positive allosteric modulator of neuronal nicotinic acetylcholine receptors
48	Duan, Chunyu	Hollis, D.M.	Furman University	Isolation of an actin-related protein 2/3 (Arp2/3) complex 1(b)-like subunit (ARPC1) in the adult teleost brain in response to injury
49	Dunbar, Andrew	Jewett, D.C.	Univ. of Wisconsin-Eau Claire	Effects of butorphanol on food-reinforced behavior and food intake in rats
50	Eisenhofer, Joel	Lom, B.	Davidson College	Flowing culture media slows growth cone extension rates
51	Feinberg, Philip	Hardwick, J.C.	Ithaca College	Molecular analysis of nitrous oxide synthase mRNA expression in the intrinsic cardiac plexus of normal and diseased guinea pigs
52	Fenton, Katrina	Galloway, M. P.	Wayne State Univ.	Proton Magnetic Resonance Spectroscopy (1H-MRS) assessment of the neurochemical profile in rat brain after traumatic Brain Injury (TBI)
53	Fiske, Mike	Johnson, B.	Lake Forest College	Investigating the contribution of serine phosphorylation & alanine-76 to α -synuclein aggregation, membrane association, and toxicity in two yeast models

54Fritz, Brandon	Dickinson, S.	St. Olaf College	The effect of environmental enrichment on ethanol reward in Swiss Webster mice
55Gallo, Miranda	Klecker, N.W.	Bates College	Characterization of a novel alpha-GluR5/6/7-immunoreactive cell group in the buccal ganglia of the pond snail, <i>Helisoma trivolvis</i>
56Gillet, Victoria	Johnson, K.G.	Pomona College	Exploring the mechanisms of proteoglycan function at the neuromuscular junction
57Gillett, Ethan	Murray, R.C.	Hendrix College	Neurogenin1 in the developing dorsal root ganglion in the mouse.
58Gomez, Alberto	Murray, R.C.	Hendrix College	Mash1 dependent progenitors in the developing mouse nervous system.
59Gottlieb, Katie	Rice, O.	Furman University	Evaluating the rewarding effects of inhaled toluene in Swiss Webster mice
60Hall, Emily	Hanck, D.A.	University of Chicago	Isoform-dependent modification of T-type calcium channels by ProTxII
61Haselden, Lindsay	Blaker, W.	Furman University	Effects of b-endorphin and brief dam/pup-separation on parental behavior in mice and their influence on anxiety/stress levels in mature offspring
62Haun, Harold	Ruscio, M.G.	College of Charleston	Effect of social environment on cell proliferation and estrogen receptor alpha in the prairie vole
63Hubka, Cannon	Grisel, J.	Furman University	DBA/2J (D2) mice drink as much ethanol as C57B1/6J (B6) mice
64Ingraham, Nick	Mynlieff, M.	Marquette University	Changes in steady-state expression of high voltage activated L-type calcium channels through development in the postnatal hippocampus of rats
65Jashari, Denisa	Dunlap, K.	Trinity College	Glucocorticoid receptor blockade inhibits socially-induced brain cell addition and electrocommunication behavior in adult electric fish, <i>Apteronotus leptorhynchus</i>
66Johnson, Ben	Rempel-Clower, N.	Grinnell College	An investigation of the neural connections between the orbitofrontal cortex and the bed nucleus of the stria terminalis
67Juneja, Natasha	Mott, D.D.	University of South Carolina	Alteration of Nociceptive Threshold during Epileptogenesis in Temporal Lobe Epilepsy
68Kaneshiro, Kayleigh	Parfitt, K.	Pomona College	PPT-1 deficiency causes altered synaptic vesicle release and recycling in <i>Drosophila melanogaster</i>

69Kanter, Ben	Lipton, P.	Boston University	Medial prefrontal lesions impair the acquisition of overlapping olfactory discriminations and transitive inference performance
70King, Erick	Shulz, J.	Occidental College	Intraspecific variation of injected venom in marine snails of the genus <i>Conus</i>
71Konnikova, Alina	DebBurman, S.	Lake Forest College	Evaluating autophagic regulation of alpha-synuclein pathotoxicity properties in budding yeast
72Kruth, Candice	Yates, J.	Duquesne University	Identification and Analysis of a Novel TRPM8 Splice Variant Using a Rat Neuropathic Pain Model
73Layman, Kayla	Lom, B.	Davidson College	Visualizing cell division and retinal ganglion cells in developing zebrafish
74Lazicki, Tim	Lewine, J. D.	Dominican University	Somatosensory Evoked Magnetic Fields Following Mild and Moderate Head Trauma
75Mahadevia, Darshini	Glenn, M.	Colby College	Emotional behavior in male rats following nutrient supplementation
76McDonough, Kevin	Kozlowski, D.	DePaul University	Cortical electrical stimulation of the motor cortex, exercise, and motor rehabilitative training after a controlled cortical impact (CCI) to the forelimb sensorimotor cortex: Differential effects on skilled motor functions
77Moehle, Mark	Brame, C.	Louisiana State Univ. Health Sciences	The effects of methamphetamine self-administration and withdrawal on aggression in male rats
78Moser, Hannah	Davis, R. E.	Northwestern College	Morphine, an endogenous opioid in nematodes, has effects on the behavior and specific target tissues of the parasitic gastrointestinal nematode, <i>Ascaris suum</i>
79Nast, Alexis	Coleman, M.J.	Scripps College	Identification of circuits involved in vocal learning and communication
80Nicholson, Marjorie	Currie, P.J.	Reed Col	Hypothalamic serotonin microinjections inhibit the effects of ghrelin on eating and energy substrate utilization
81Pennock, Michael	Smith, M.A.	Davidson College	Effects of Aerobic Exercise on Reinstatement of Cocaine-Seeking Behavior
82Perez, Jaime	Glassman, R.	Lake Forest College	Unexpected Complexity in Endosome/MVB Pathway-mediated Regulation of α -Synuclein Localization, Accumulation, and Toxicity in Budding Yeast

83	Peterson, Sam	Rempel-Clover, N.	Grinnell College	Basolateral and basomedial amygdala projections terminating in the orbitofrontal cortex of the rat display laminar patterns suggesting functionality
84	Piza-Palma, Carlos	Grisel, J.E.	Furman University	Increased self-administration of EtOH in response to stress dependent changes in beta-endorphin
85	Rajo, Marco	Butcher, G.Q.	Centenary College of Louisiana	Protein Kinase M Zeta (PKM ζ) a Modulator of Light-Induced Phase Shifts
86	Riker, Dana	Horch, H.	Bowdoin College	Quantification of Auditory Interneuron-2 and Nerve 5 Growth Characteristics after Denervation in the Cricket, <i>Gryllus bimaculatus</i> and Investigation of Vesical Associated Membrane Protein (VAMP)
87	Roberts, Christina	Watt, M.J.	University of South Dakota	Mechanisms and consequences of disruptions to cortical dopamine activity during adolescence
88	Ross, Jessica	Masino, S.A.	Trinity College	Sex-specific impairment in working memory in human huntingtin transgenic mice
89	Ruiz, Tiffany	Masino, S.A.	Trinity College	Effects of the Ketogenic Diet on Physiology and Behavior of R6/2 Huntington's Disease Transgenic Mice
90	Scutella, Dominique	Kerchner, M.	Washington College	Behavioral, Morphological, and Neural Activity Differences Between Selectively-Bred Rat Lines
91	Siebert, Aimee	Krehbiel, D.	Bethel College	Psychological and Cortical Differentiation of Search Engine-Selected Similar and Dissimilar Songs
92	Southard, Marybeth	Koeltzow, T.E.	Bradley University	The effects of environmental enrichment on locomotor activity and impulsivity in the spontaneously hypertensive rat.
93	Sterne, Gabriella	Withers, G.S.	Whitman College	Actin Stability and Morphological Commitment in Developing Neurons
94	Su, Zheng	Lindgren, C.	Grinnell College	Prostaglandin E2 glycerol ester, a main COX-2 oxidative product, enhances synaptic transmission at the lizard neuromuscular junction
95	Sun, Daniel	Herzog, E.D.	Washington University	Determining the role of VIP neurons in mouse circadian rhythms

96 Venkataraman, Gaurav	Fischer, T.M.	Wayne State University	Low-threshold mechanoreceptors in the siphon of <i>Aplysia</i> do not exhibit Neuromodulation of stimulus-evoked activity
97 Walton, Ann	Jones, L.S.	Appalachian State	Using IMPULSE in an undergraduate course: A case study
98 Welko,A.M.	French, L.B.	Allengheny College	The effects of specific Conus snail venoms on the T-type calcium channel Cav3.2
99 Yang, Xong and Tsetan Lobsang	Crisp, K.	St. Olaf College	Biogenic Amines Modulate Dorsal Blood Vessel Pulse Rate in <i>Lumbriculus variegatus</i>