

10th Annual
University of New England College of Arts & Sciences
Arts & Sciences Symposium

Sponsored by: ALPHA CHI NATIONAL HONOR SOCIETY and the CAS DEAN'S OFFICE

(light breakfast and lunch provided)

Wednesday, April 29, 2009

Poster Session - 8am-10am
in Decary Upper Cafeteria

Oral Presentation Session – 8:00am-6:00pm
in Sutton Lounge and Decary Cafeteria Function Rooms 1 & 2

Featuring Honors Thesis Presentations by:

Andrea Pelotte (Chemistry & Physics)
(12:35-1:20 – Function Rm. 1)

Nathan Furey (Biology)
(12:35-1:20 – Function Rm. 2)

Emily Zimmermann (Biology)
(1:25-2:10 – Function Rm. 2)

and a presentation from students in the Department of Business & Communications
reporting on a UNE student survey regarding campus athletic facilities
(2:15-2:35 – Sutton Lounge)

as well as a presentation by students from students in the Department of English & Language Studies
on representations of “madness” in literature and its intersection with gender role expectations
(10:30-11:10 – Note: special room for this presentation is Room 202 Decary Hall)

TIME	CAFÉ FUNCTION ROOM 1	CAFÉ FUNCTION ROOM 2	SUTTON LOUNGE
8:00-8:20	<p>1 – Fight-or-Flight Response: Effects on the Cardiovascular & Nervous System Jayme Senkbeil, Ashley Seiferth, Emma Albee (Biology) Effects of fear on heart rate and alpha- & beta-wave electroencephalographic (EEG) patterns</p>	<p>2 – Effects of Tissue Plasminogen Activator (tPA) in Stroke Victims Megan McKenney, Kimberly Simonsen (Biology) A history of its use and review of its mechanisms</p>	<p>3 – Testosterone, Fear, and Motivation Jeff Cole (Psychology) Can circadian rhythms in testosterone level influence behavior?</p>
8:25-8:45	<p>4 – Effects of Temperature Change on the Human Body Caitlyn Townsend, Laura Costin, Julia Bolduc, Gwen Duren (Biology) Muscular, respiratory, & cardiovascular response to hot and cold water exposure</p>	<p>5 – Treatment Options for Multiple Sclerosis Julie Eldredge, Meagan O'Brien (Biology) A review of current treatments</p>	<p>6 – The Peeping Betta: Audience Effects on Male-Female Interactions in Siamese Fighting Fish Meghan Walsh, Laura Ruggles (Psychology) Audience effects on reproductive status and male-female courtship behavior</p>
8:50-9:10	<p>7 – Watch This! Christopher Butler, Josh Grzyb, Whitney Tostenson, Jen Bayron (Biology) Effects of fear on heart rate, brain function & respiratory rate</p>	<p>8 – Clinical Manifestations of Creutzfeldt-Jakob Disease Katie Wright, Jaclyn Hopkins (Biology) A review of signs & symptoms</p>	<p>9 – Patterns & Frequency of Pharmaceutical Advertising Holly Beaulac (Psychology) Efficacy of pharmaceutical advertising over 24 hours</p>
9:15-9:35	<p>10 – Music and Math: Do they Mix? Alyssa Dumond, Caryn Cartlege, Krystina Murray, Kathryn Gillis (Biology) Effects of music and stress on the cardiovascular, respiratory, and nervous systems</p>	<p>11 – Theories of Causes of Alzheimer's Disease Jessica Case, Casey Nightingale (Biology) Role of gender, genetics, and co-morbid conditions</p>	<p>12 – Headphones and Workouts Andrew George, Tom Cook, Ryan Hinchey (Psychology) Benefits of headphone use</p>
9:40-10:00	<p>13 – The Stress of Perfection® Jade Langevin, Halie Lyons, Danielle Wood, Virginia Lee, Jessica McLaughlin (Biology) Perfection®-game induced stress and its effect on the cardiovascular, respiratory & muscular systems</p>	<p>14 – The Effect of Classical Music on Fetal Development Nicole Rinnig, Amanda Whiting (Biology) A review of the literature</p>	<p>15 – Systems of Power, Visual Culture & Body Image Brittany Clark (Women's Studies) The internalization of societal images and its effect on body image</p>
10:05-10:25	<p>16 – Aromatherapy's Effect on Claustrophobia Rachael Bliss, Danielle Langley, Andrew Twaite, Konrad Kross (Biology) An analysis of physiological effects</p>	<p>17 – Bell's Palsy Lis Dudley-Bean, Cori Goodwin (Biology) Signs, symptoms and available treatments</p>	<p>18 – Hannah Arendt and the Politics of Genocide in Europe and Africa Amy Davis (Political Science) Atrocities in the Congo basin during Belgian colonization and linkages suggested by Hannah Arendt between the Congo basin and the holocaust</p>
10:30-10:50	<p>19 –Effects of Sleep Deprivation on the Nervous, Skeletal, and Cardiovascular Systems Jillian DeMelim, Gillian Boyd, Ann Marie Mandarakas, Heather Martin (Biology) A case study</p>	<p>20 – Therapies for Friedreich's Ataxia Alisha Tonks, Ashley DePasquale (Biology) A focus on occupational and physical therapies</p>	<p>NOTE: SPECIAL ROOM FOR presentation #21 below is Rm. 202 Decary Hall (10:30-11:00) 21 – Madness in Literature Jennifer Tuttle, Molly McLaughlin, Julie Montiero, Carly Holgerson (English & Language Studies) The intersection of madness and gender role expectations in literature</p>

TIME	CAFÉ FUNCTION ROOM 1	CAFÉ FUNCTION ROOM 2	SUTTON LOUNGE
10:55-11:15	<p>22 – Effects of a 6-Week Yoga Program on Heart Rate, Blood Pressure & Reaction Time Jamie Hoffman, Katie Brems, Kaylin Regula (Biology)</p>	<p>23 – Abilify: An FDA-Approved Drug for the Treatment of Bipolar I Disorder, Depression, and Schizophrenia Katie Wright, Jenny Power (Chemistry & Physics) Structure, mechanism & FDA-approval process for Abilify (aripiprazole)</p>	<p>24 – The American Dream Emily Harvey (Sociology) Consumerism, youth culture, boredom & the unrecognized duality between youth culture and corporate values</p>
11:20-11:40	<p>25 – The Physiological Effects of Aromatherapy Ashley McDonald, April Mroz, Holly Dubuc (Biology) Effects of relaxant- and stimulant-based aromatherapy on the cardiovascular, respiratory, and endocrine systems</p>	<p>26 – Mirapex: A Drug Case Study Angela Chase, Calli Lombardi (Chemistry & Physics) Discovery, synthesis, and use of Mirapex for restless leg syndrome and Parkinson’s disease</p>	<p>27 – The Fecundity, Viability, and Gestation Rates of Little Skate (<i>Leucoraja erinacea</i>) Egg Cases Brittany Palm (Biology) A year-long investigation of the reproductive biology of this Gulf of Maine fish.</p>
11:45-12:05	<p>28 – A Study of Monster® Energy Drink Michael Otte, Kate Pemberton, Bethany Augustoni, Brianna Pierce, Veeral Patel (Biology) Effects on the cardiovascular, muscular & nervous systems</p>	<p>29 – Enbrel (Etanercept): A Tumor-Necrosis Factor-Blocker Jillian Hamond, Krystine Milan (Chemistry & Physics)</p>	<p>30 – Effects of Winds & Tides on the Saco River Plume Jessica Eickhorst (Biology) Explaining plume distribution in a local river</p>
12:10-12:30	<p>31 – Long-term Effects of Meditation on Brain Activity, Stress & Cardiovascular Health Kristen Sprague, Audrey Grass, Amanda Simmons, Mustaf Shariff (Biology) A study of potential benefits of meditation</p>	<p>32 – Heparin: A Drug Case Study Shannon Records, Eric Field (Chemistry & Physics) A chemical analysis of this drug</p>	<p>33 – Habitat Partitioning of Juvenile Fish within the Saco River Estuary Leigh Engel (Biology) A study of the habitats of macrofaunal species in the Saco River estuary</p>
12:35-12:55	<p>CHEMISTRY & PHYSICS HONORS THESIS 34 – Design, Synthesis & Evaluation of Novel Naltrexol Derivatives for Potential Use as Addiction Therapies Andrea Pelotte (Chemistry & Physics) Relationship between structure and activity for a series of naltrexol derivatives that bind to the mu-opioid receptor</p>	<p>BIOLOGY HONORS THESIS 35 – Temporal Variations of the Fish Assemblage within the Saco River Estuarine Ecosystem: Determining the Role of this Habitat in the Life History of Nektonic Species Nathan Furey (Biology) Assessment of temporal variations in abundance & size of fish assemblage using beach seine, otter trawl & beam trawl</p>	<p>36 – A Signal Processing Approach to Analysis of DNA Sequences Paris Mansmann (Mathematical Sciences) The use of spectral analysis to identify DNA coding regions</p>
1:00-1:20			<p>37 – In vivo Assessment of the Opioid Agonist/NK-1 Antagonist TY027 in Models of Nociception and Addiction Liability Carla Cosgrove (Biology, COM-Pharmacology) Review of the synthesis and biological effects of Avaryl</p>

TIME	CAFÉ FUNCTION ROOM 1	CAFÉ FUNCTION ROOM 2	SUTTON LOUNGE
1:25-1:45	<p>38 – Physiological Effects of Omega-3 Fatty Acids Kate Wentworth, Jesse White, Sean Graham, Corey Dumais (Biology) 4-week study of blood glucose, blood pressure & reaction time</p>	<p>BIOLOGY HONORS THESIS 39 – Early Indication of Thermal Stress in the Intertidal Gastropod <i>Nucella lapillus</i> Emily Zimmermann (Biology) Physiologic symptoms of heat stress (Hsp and AMPK) in two different color morphs of dogwhelks, in relation to their distributional patterns in the field</p>	<p>40 – Will o’ the Wisp Lures Sarah Tuttle (Environmental Studies) A sample of poetry</p>
1:50-2:10	<p>41 – Physiological Effects of Smoking Jean Lewis, Amber Benoit, Ryann Grant, Ashley Sienkiewicz (Biology) A study of the respiratory, circulatory & nervous systems</p>		<p>42 – An Institutional Analysis of Aquaculture in the State of Maine Brittany Palm, Ashley Katon, Stephan Smith, Will Schneider, Katie Schafer, Sean McQuilken (Business & Communication) Using aquaculture to alleviate pressure placed on wild fish stocks by commercial fishing</p>
2:15-2:35	<p>43 – Increases in Heart Rate, Blood Pressure & Respiratory Rate as Indicators of Pre-examination Anxiety Ellen Faulise, Jordan Emery, Emily Schoch, Ariana Nesbit (Biology) An examination of the fight-or-flight response and its effects on examination performance</p>	<p>44 – Ritalin: A Drug Case Study Rachel Colby, Karine Marcom (Chemistry & Physics) A review of this medication used for attention-deficit, hyperactivity disorder (ADHD)</p>	<p>45 – The University of New England (UNE) Community’s Views on the Currently Available Athletic & Recreational Facilities on the Biddeford Campus Jordan Place, Greg Collins, Sheena Pope, Patrick Prescott, Brian Muldoon, John-Michael Cascio (Business & Communication) Results from a survey of UNE students</p>
2:40-3:00	<p>46 – Effects of Isotonic and Isometric Exercise on Muscle Strength Recovery Time, Blood Pressure, Heart Rate, and Sweat Production Elizabeth DeGrandpre, Lauren Lavoie, Sarah Cooper, Shannon Records (Biology) A semester-long study</p>	<p>47 – Viagra: A Drug Case Study Michael Light, Patrick Robichaud (Chemistry & Physics) The uses and side effects of this drug</p>	<p>48 – Age and Size of the Black Dogfish (<i>Centroscyllium fabricii</i>) at Sexual Maturity Nicole Ward (Biology) A proposal for summer research</p>
3:05-3:25	<p>49 – Effects of Capsaicin Consumption on the Sympathetic & Parasympathetic Nervous Systems Marilyn Kane, Lysie Weaver, Amanda Fairbanks, Sokharath Duong (Biology) A study of heart rate, sweat production & saliva production</p>	<p>50 – The Development and Use of Losartan (Cozaar) Nathaniel Oz, Elizabeth Squires (Chemistry & Physics) The development & current use of this anti-hypertensive drug</p>	<p>51 – Community Diversity among Adult Fish Populations and its Influence on Juvenile Survival in Maine’s Saco Bay Drew Rosati (Biology) A long lining survey and IRI on species caught</p>
3:30-3:50	<p>52 – Effects of Nasal Obstruction on Heart Rate, Hemoglobin-Oxygen Saturation, Respiratory Rate & Galvanic Skin Response Shane Griffith, Allie Jencks, Ben Farnum, Garret Santos (Biology)</p>	<p>53 – Adderall: A Drug Case Study Josh Viola, Corey Dumais (Chemistry & Physics) A review of this drug’s effects</p>	<p>54 – Vertical Distribution & Abundance of Larval Fish in the Saco River Estuary System Jessica Bergeron (Biology) Introduction of sampling techniques new to this region</p>

TIME	CAFÉ FUNCTION ROOM 1	CAFÉ FUNCTION ROOM 2	SUTTON LOUNGE
3:55-4:15	<p>55 – The Economy & the Environment in Guatamala Joseph Jacques (Environmental Studies) The effect of an increase in population</p>	<p>56 – Chantix (Varenicline) for Smoking Cessation Michael Verde, Anthony Guarini (Chemistry & Physics) A description of this newly released drug from Pfizer</p>	<p>57 – Assessment of Fish Species Abundance, Diversity, and Distribution in the Saco River Cassie Gonzales (Biology) A survey of a previously unexplored portion of the river</p>
4:20-4:40	<p>58 – Indications for and Efficacy of Corpus Callosectomy Dawn Whalen (Biology)</p>	<p>59 – Lopressor (Metoprolol Tartate): A Drug Case Study Justin Valiquet, Yeawon Jung (Chemistry & Physics) Discovery, ADMET properties, clinical trials and history of this drug</p>	<p>60 – Ontogenic Shifts & Diet as a Cause of Sexual Dental Dimorphism in the Little Skate (<i>Leucoraja erinacea</i>) Marie Quinlan (Biology)</p>
4:45-5:05	<p>61 – The Role of Stem Cell Intervention in Multiple Sclerosis (MS) Albert Miltner, Jeffrey Champagne (Biology) A description of stem cell transplantation in MS</p>	<p>62 – Treating Alzheimer’s Disease with Acetylcholinesterase Inhibitors Kristina Nivus (Chemistry & Physics) Pharmacological, biological, and chemical aspects of donepezil hydrochloride: efficacy, safety & FDA approval</p>	<p>63 – Effects of Temperature & Seasonal Variation on Growth of the Neonate Little Skate (<i>Leucoraja erinacea</i>) Jade Heidt (Biology) A proposal for a summer study</p>
5:10-5:30	<p>64 – The Role of Sensory Integration Theory in the Treatment of Autism Ashley Taylor, Kristen Schrepper (Biology)</p>	<p>65 – Behavior Modification & Distribution of Ichthyoplankton in the Saco River Plume Samanth Johnson (Biology) A study of larval <i>Ulvaria subbifucata</i> & <i>Tautoglabrus adspersus</i> subjected to variable salinity plume</p>	<p>66 – Use of Acoustic Telemetry to Track Atlantic Sturgeon Movement Patterns in the Saco River Devin Flawd (Biology) Tagging & tracking with acoustic telemetry</p>
5:35-5:55		<p>Addendum – Bortezomib (Velcade): First Proteasome Inhibitor Resulting in Death of Multiple Myeloma Cancer Cells Melissa Sukernick, Kristin Waterman (Chemistry & Physics) A drug approved in phase II to lengthen the lives of patients with multiple myeloma</p>	

ARTWORK AND POSTER PRESENTATIONS – 8:00-10:00 AM – DECARY UPPER CAFETERIA

67 – Developed Nations: A Closer Look at Population, Agricultural Land Use, Products & Inputs

William Almeida (Environmental Studies)
An analysis of agricultural production as well as land, tractor and fertilizer use

70 – Does Carbon Dioxide (CO₂) Production Directly Influence Mean Global Temperature?

Brandon Gormley (Environmental Studies)
A global analysis

73 – Fertility & Education in Niger

Tara Geraghty (Environmental Studies)
The relationship between education level and fertility rate

76 – The Impact of Affluence vs. Population on Climate Change

Caitlin O'Connor (Environmental Studies)

79 – Deforestation of the Brazilian Amazon

Janel Harrington (Environmental Studies)
An investigation of causes of deforestation

82 – The Effect of Agricultural Labor Force on Fertility Rate

Cassandra Johnson-Lally (Environmental Studies)
A comparison of China & South Korea

85 – Male & Female Conformity

Kassie Couture, Elise Brisson, Alexandra Wagner (Psychology)
Conformity to gender-stereotyped group exercises

68 – Population Growth & its Effect on Food Production

Emily Baisden (Environmental Studies)
Social & environmental implications for developing regions

71 – Population and Madagascar

Chloé Crettien (Environmental Studies)
The relationship between population growth & industrial development

74 – Population, War & the Environment: the Case of Iraq

Shereen Aldhamen (Environmental Studies)
Correlation between war, resource availability & population

77 – The Impact of Population Growth on Forests

Justine Madore (Environmental Studies)

80 – Human Population Growth & the Bahaman Fishing Industry

Thomas Hinman (Environmental Studies)
A study of the effects of human population growth on fish populations

83 – Gender Differences in Spatial Ability Tasks and Self-determination

Katie Lindquist, Mary Fehlner, Amber Richer, Chrissi Miller (Psychology)
An analysis using brain-teaser tasks

86 – Gender & Commitment as Predictors of Infidelity in Dating Relationships among College Students

Courtney Gill, Lyndsay Schmidt, Katie Ragone (Psychology)

69 – The Detrimental Effects of Population Growth in South America

Adriane Bochenko, Kimberly Mann (Environmental Studies)
Agricultural-related environmental degradation in South America since the 1960s

72 – Agriculture & China

Perry Phillips (Environmental Studies)
A study of environmental impact

75 – Effects of Population Growth & Globalization on Brazil's Natural & Social Environment

Ryan Kingston (Environmental Studies)
Impact of global trade on developed and developing nations: an analysis of population growth, resource use & the natural environment

78 – Spain vs. Ethiopia: A Case Study

Christy DiMinico (Environmental Studies)
A comparison of a developing vs. developed nation

81 – Decline of the Chinook Salmon in the Sacramento River

Lindsay Kelly (Environmental Studies)
A correlation between salmon population & human population

84 – Relationship Between Stress & Memory in College Students

Julia Farides, Chelsey Mott, Edward Koehler (Psychology)
An study of short- and long-term memory

87 – Gender Differences in Helping Behavior

Kasey Little, Kiley Brough (Psychology)

ARTWORK AND POSTER PRESENTATIONS – 8:00-10:00 AM – DECARY UPPER CAFETERIA

88 – The Perception of Talkers

Kristy Boyd, Steven Lofton, Ashley DePasquale (Psychology)

The babble effect: are those who talk the most perceived by others as leaders, despite the content of their speech?

91 – A Descriptive Study of Driving Behaviors

Alison Tilley, Heather Goodwin (Psychology)

A study of college students

94 – The Effect of Student Relationships on Grade Point Average (GPA)

Kalyn Sullivan, Christina Perazio, Alyssa Yeager (Psychology)

97 – Effect of Dress Style on Self-perceived Confidence

Christina Baker, Kara Widdison, Ashley Moore (Psychology)

100 – Sleep Habits of University of New England (UNE) Students

Corey Cribby, Mike Sagaert (Psychology)
A survey study

103 – Attitudes & Perceptions of Sex without Physicality

Becca Hartman, Danielle Duffen, Maricar Friedman (Psychology)

Results from a survey of undergraduate college students

106 – Girl-on-Girl Crime: the Mean World of Girls Portrayed on Television

Elizabeth Backler (Psychology)
A review of the literature

89 – The Role of Trust in Apology-making & Forgiveness

Megan Scerra, Kimberly Tymchyn, Marisa Dzioba (Psychology)

92 – A Descriptive Statistical Analysis of Text Messaging

Michelle Franco, Michaela Powers (Psychology)

An analysis of this form of communication

95 – Assessment of Cell Phone Usage in the College Classroom

Rick Rizzo (Psychology)

A study of the correlation of cell phone usage to grade point average (GPA) and sex differences among students

98 – Dog Adoption Preferences

Shalee Crandall, Kristin Myers (Psychology)

A study of potential adopters

101 – In-group vs. Out-group: the Effect of Group Affiliation on Explicit Attitudes toward Sexual Orientation

Kimberly Tymchyn, Megan Scerra, Cassie North, Sean McGlew (Psychology)

104 – Student Satisfaction with University of New England (UNE) Dining Services

Stephanie Marshall, Tiffany Foster, Emily Porr (Psychology)

Results from a survey of UNE students

107 – Potential Management Plan for the New England Woods, Biddeford, Maine

Amy Rhoads, Owen Grumbling (Environmental Studies)
A plan for the 369-acre woods owned by the University of New England (UNE): the need for land preservation

90 – Perceptions of the American Dream

Emily Harvey, Mike Dederding, Jan Slezak (Psychology)

93 – Correlation Between Violent Attitudes & Music Genre Preference

André Trzaskowski (Psychology)

96 – Television-watching Habits of University of New England (UNE) Students

Jessica Lynn (Psychology)

An analysis of what and when students are watching

99 – Faculty & Staff Workload and Reported Stress

Erika Migneault, Tyler Stratton (Psychology)

Results from a survey of University of New England (UNE) employees

102 – Decision-making in Response to Live Stimuli vs. Dummy Stimuli in Three-spine, Stickleback

Gasterosteus aculeatus

Melissa Davio, Kristin Waterman (Psychology)

A study of response variation in males to conflicting dummy vs. live conspecific stimuli

105 – Satisfaction of University of New England (UNE) Students with Educational Preparation

Kathryn Morin, Gillian Boyd (Psychology)

A survey of junior and senior students

108 – Determining the Distribution of the Saco River Plume with Biodegradable Drifters

Amy Carlson, Jessica Eickhorst, Charles Tilburg (Chemistry & Physics, Environmental Studies & Biology)

The use of oranges as oceanographic drifters to examine the distribution of the Saco River discharge

ARTWORK AND POSTER PRESENTATIONS – 8:00-10:00 AM – DECARY UPPER CAFETERIA

109 – The Physiological Effects of the Use of Wii Fit vs. the Fitness Center

Fran Brym, Stephanie Gligora, Heather Patry, Mandi Munger (Biology)
A study of cardiovascular and strength training

112 – Physiologic Effects of Various Cardiovascular Exercises on Homeostasis

Caroline Phinney, Michelle Helm, Andrew Varelas, Abbey Turner (Biology)

115 – Characterization of Dramatic Aggregation-induced Emission from Novel Fluorescent Siloles

Danielle Woodall, Ashton Booth, Jerry Mullin, Alicya Orlando (Chemistry & Physics)
Absorbance & emission properties of 1,1-dimethyl-2,5-diphenyl-3,4-ditoyl siliole in various solvents

118 – Atomic Force and Fluorescence Microscopy Imaging of Cardiomyocyte Plasma Membrane, Insulin Receptor & Caveolin-3

Elizabeth McAndrew (Chemistry & Physics, COM - Pharmacology)
Visualizing the distribution of insulin receptors & caveolae in cardiomyoblasts and adult cardiomyocytes in normal vs. type 2-diabetic models

121 – ARTWORK DISPLAY – Will o' the Wisp Lures

Sarah Tuttle (Creative & Fine Arts)

124 – ARTWORK DISPLAY – An Assortment of Pottery

Elizabeth McAndrew (Creative & Fine Arts)
A display of handmade vases, jars & bowls

110 – Freezin' for a Reason

Nathan Price, Derek Poulin, Justin Jezierski, Leonard Tan (Biology)
Physiological effects of sudden submersion in near-freezing water

113 – The Physiological Effects of Red Bull®

Caiti Shimamura, Danielle Laplante, Kelly Keeman, Cassie Britton (Biology)
A study of the urinary, cardiovascular & musculoskeletal systems

116 – Cloud Cover over the Gulf of Maine

Katie Edwards (Chemistry & Physics)
The potential effects of seasonal variation in cloud cover on weather events

119 – Attention Behavior and Neurochemistry of Adult vs. Adolescent Rats Given a Diet High in Omega-6 Essential Fatty Acids

Francine Brym (COM - Pharmacology)

122 – ARTWORK DISPLAY – The Rainforest

Cassie Gonzales, Emily Baisden, Tara LaRose, Steven Guinta (Creative & Fine Arts)
A painting

111 – Effects of Different Styles of Music on Heart Rate, Respiratory Rate, and Electroencephalographic (EEG) Indicators of Alertness and Relaxation

Amy Lucas, Emilynne Buchanan, Gregory Hanseler, Aubrey Whittemore (Biology)
A study of the effects of heavy metal vs. classical music

114 – Influence of Nucleotide Loop Length on Model DNA Hairpin Loop Stability

Emily Schoch (Chemistry & Physics)
The use of Monte Carlo molecular simulation to study DNA hairpin stability at various temperatures

117 – Differential Lumbar Spinal Cord Glial Fibrillary Acidic Protein (GFAP) Expression in Wild-type vs. CD4-1 Mice following Nerve Injury-induced Neuropathic Pain

Swathi Maddula (COM - Microbiology)
Use of immunohistochemistry and enzyme-linked immunosorbent assay (ELISA) to measure expression of GFAP, an indicator of astrocyte activity, during neuropathic pain

120 – In Vivo Characterization of the Anti-nociceptive Effects of UFP-512 and BG-156 Selective Delta-Opioid Receptor Ligands

Alexa Lopez (Psychology, COM-Pharmacology)

123 – ARTWORK DISPLAY – Histology of the Human Body

Christopher Carey (Creative & Fine Arts)
Oil paintings of various tissues