

Heather Allyson Bimonte-Nelson, Ph.D.

CURRICULUM VITAE

Arizona State University, Department of Psychology
Assistant Professor and Honors Disciplinary Faculty
PO Box 871104, Tempe, AZ 85287-1104

Office: (480) 727-0766; Fax: (480) 965-8544; Home: (480) 247-2929; Email: bimonte.nelson@asu.edu

Personal Information:

Date of Birth: October 17, 1971

Married to Matthew Nelson; two daughters.

Education:

<i>Years</i>	<i>Degree</i>	<i>Institution</i>	<i>Field of Study</i>
9/90-12/94	B.A.	Richard Stockton College, Pomona, NJ	Psychology Department
1/95-3/00	M.S. and Ph.D.	University of Connecticut, Storrs, CT	Biobehavioral Sciences Department <i>Mentor: Dr. Victor Denenberg</i>
3/00-12/03	Postdoctoral Fellow	Medical University of South Carolina, Charleston, SC	Physiology & Neuroscience Department and the Center on Aging <i>Mentor: Dr. Ann-Charlotte Granholm</i>

Faculty Appointments:

2002 - 2003: *Adjunct professor, Department of Psychology, College of Charleston*

2004 - 2005: *Research Assistant Professor, Physiology and Neuroscience Department and
the Center on Aging, Medical University of South Carolina*

2005 - present: *Assistant Professor, Psychology Department, Arizona State University*

2006 - present: *Honors Disciplinary Faculty, Arizona State University*

Other Professional Appointments:

2008 - present: *Internal Scientific Advisory Board Member for the Arizona Alzheimer's Consortium*

2008 - present: *Scientific Advisory Board Member for Senestech (company specializing in reproductive technology)*

Research:

Current grant funding: Bimonte-Nelson, Principal Investigator or Co-Investigator

- **RO1 Grant:** from National Institute on Aging PI: Heather Bimonte-Nelson, *Variations in hormone therapy: effects on cognition and markers of brain aging*. Active 10/07-9/12, Total Direct Costs = \$1,750,000, **Score = 0.5%**.
- **RO1 Grant, Diversity Supplement:** from National Institute on Aging PI: Heather Bimonte-Nelson, Parent Grant: *Variations in hormone therapy: effects on cognition and markers of brain aging*. Active 10/08-9/09, Total Costs = \$55,000.
- **RO1 Grant:** from National Institute of Neurological Disorders and Stroke, PI: Matthew Huentelman from TGEN, Co-Investigator: Heather Bimonte-Nelson, *Genetic variation in KIBRA and its role in human episodic memory*. Active 6/08-5/12, Total Direct Costs = \$1,655,920, (\$576,257 total subcontract to ASU).
- **Alzheimer's Disease Core Center Funding (NIH):** Monies were awarded to Bimonte-Nelson to aid in purchase of Microbrightfield Stereology equipment for the Bimonte-Nelson laboratory. PI for ASU site: Jeffrey Wilson. Total Direct Costs = \$25,000.
- **Alzheimer's Disease Core Center Pilot Grant (NIH):** PI: Heather Bimonte-Nelson, Co-Investigators: Ron Lukas (Barrow Neurological Institute), Alain Simard (Barrow Neurological Institute), Jon Valla (Barrow Neurological Institute), Laszlo Prokai (University of North Texas Health Science Center). *Hormone therapy effects on memory and the brain during aging: novel therapies and optimal parameters*. Active 9/08-8/09, Total Direct Costs = \$60,000.

Current grant funding: Bimonte-Nelson, Collaborator or Consultant

- **Program Project Grant:** from National Institute on Drug Abuse: PI: Kurt Hauser (University of Kentucky), Collaborator: Heather Bimonte-Nelson to design behavior battery to evaluate cognition in HIV infected mice and consult on data analysis and manuscripts. *Opiate drug abuse and CNS vulnerability to HIV.*
- **RO1 Grant:** PI: Narayan Bhat, Consultant: Heather Bimonte-Nelson, to aid in experimental design, behavioral battery implementation, data analyses, and manuscript preparation. *Neuroinflammation in cholesterol-induced AD pathogenesis.*

Submitted grants: Bimonte-Nelson, Principal Investigator, Co-Investigator or Sponsor

- **RO1 Grant:** to National Institute of Neurological Disorders and Stroke, PI: Laszlo Prokai from University of North Texas Health Sciences Center, PI: Heather Bimonte-Nelson. *Brain-selective neuroprotective therapy for stroke.*
- **RO1 Grant:** PI: Vinodh Narayanan from Barrow Neurological Institute, PI: Heather Bimonte-Nelson, PI: Cheryl Conrad from Arizona State University. *Characterization of the A140V mouse model for Rett syndrome/XLMR.*
- **Predocutorial NRSA grant:** to National Institute in Aging, PI: Joshua Talboom (Bimonte-Nelson graduate student), Sponsor: Heather Bimonte-Nelson. *Components of Premarin on cognition: putative mechanisms and gene expression.*

Submitted grants: Bimonte-Nelson, Collaborator or Consultant

- **RO1 Grant:** National Center for Complementary and Alternative Medicine, PI: Lotta Granholm from Medical University of South Carolina, Consultant: Heather Bimonte-Nelson, to aid in experimental design, behavioral battery implementation, data analyses, and manuscript preparation, *Transfats and hippocampal function.*
- **RO1 Grant:** PI: Cheryl Conrad, Collaborator: Heather Bimonte-Nelson, to aid in experimental design, behavioral battery implementation, data analyses, and manuscript preparation of memory portion, *Chronic stress, environment and hippocampus: relation to depression.*
- **RO1 Grant:** PI: Cheryl Conrad, Collaborator: Heather Bimonte-Nelson, to aid in experimental design, behavioral battery implementation, data analyses, and manuscript preparation of memory portion, *Estrogen actions on hippocampus plasticity.*
- **Scientist Development Grant for the American Heart Association:** PI: Lei Lei from School of Life Sciences at Arizona State University, Collaborator: Heather Bimonte-Nelson, to aid in experimental design, behavioral battery implementation, data analyses, and manuscript preparation, *Function of Sox11 in adult hippocampal neurogenesis and recovery after ischemic stroke.*

Completed grants: Bimonte-Nelson, Principal Investigator

- **Individual Predocutorial National Research Service Award Grant** from National Institutes of Health (# 1-F31-MH12416), PI: Heather Bimonte-Nelson, Sponsor: Dr. Victor Denenberg, *Developmental parameters of corpus callosum feminization, 4/99 - 4/00.*
- **Individual Postdoctoral National Research Service Award Grant** from National Institute on Aging (# 1-F32-AG19560), PI: Heather Bimonte-Nelson, Sponsor: Dr. Ann-Charlotte Granholm, *Ovarian hormones and age-related memory deterioration, 12/01 - 12/03.*
- **Specialized Center of Research Pilot Research Grant** co-funded by the Office of Research on Women's Health (Medical University of South Carolina) and NIDA (P50 DA16511). PI: Heather Bimonte-Nelson, *Estrogen replacement effects on spatial memory: opposition by progesterone?* 1/04-1/05, Total Direct Costs = \$25, 000.
- **RO3 Grant** from National Institute on Aging PI: Heather Bimonte-Nelson, *Progesterone, aging, and memory loss.* 6/04-6/06, Total Direct Costs = \$74, 000.

- **Grant from Banner Good Samaritan Medical Center, Alzheimer's Disease Research Consortium:** PI: Heather Bimonte-Nelson. *Devising a new test of non-spatial working memory to evaluate aging in the rodent*. Active 10/06-10/07, Total Direct Costs = \$10, 000.
- **RO3 Grant:** from National Institute on Aging PI: Heather Bimonte-Nelson, *Sex differences in factors influencing cognitive aging*. Active 12/05-6/08, Total Direct Costs = \$82, 000.
- **Grant from the Evelyn F. McKnight Brain Institute, University of Arizona:** PI for the ASU site (collaboration with TGEN, Phoenix, AZ): Heather Bimonte-Nelson. *In vivo memory drug screening of KIBRA effects during aging*. Active 7/06 – 7/08, Total Direct Costs = \$25,584.
- **Institute for Mental Health Research Grant:** PI: Heather Bimonte-Nelson, Collaborator: Loretta Mayer, Northern Arizona University, *Cognitive function in a transitional versus surgical rat model of menopause*. Active 6/07-6/08. Total Direct Costs = \$50,000.
- **Alzheimer's Disease Center Pilot Grant (NIH):** PI: Heather Bimonte-Nelson, Collaborator: William Tyler, Arizona State University, *Ovarian hormone loss and the aging brain: an analysis of hippocampal structure and function*. Active 6/07-6/08. Total Direct Costs = \$25,000.

Professional Awards and Honors:

1995-2000	Awarded five consecutive years, University of Connecticut Biobehavioral Sciences Fellowship
1998-1999	Association for Women in Science Educational Foundation Fellowship
1998-1999	Awarded two consecutive years, University of Connecticut Neuroscience Scholar
2002	Travel award from the American Society for Neural Transplantation and Repair to attend and present at the Eighth International Conference for Neural Transplantation and Repair
2006	Awarded distinction of Honors Disciplinary Faculty at Arizona State University
2007	Invited guest to the Healthcare Heroes Luncheon, Arizona Business Journal
2007	Arizona Alzheimer's Consortium <u>Outstanding Young Investigator of the Year</u> Award plus \$5000 financial contribution to the Bimonte-Nelson laboratory from E.B. Lane
2007	Woodside Sustained Community Service Award for bringing Brain Awareness to classrooms in Arizona
2007	Brain Awareness Summary included in the Society for Neuroscience and Dana Brain Alliance International Summary of Community Brain Awareness Book
2008	Nominated for Instructor of the Year, Arizona State University
2008	Nominated for national Frank A. Beach Award, Society for Behavioral Neuroendocrinology

Publications: published, in press or in review:

* denotes Bimonte-Nelson as senior collaborating author ** denotes Bimonte-Nelson as lead senior author + denotes graduate or medical student in our lab ^ denotes undergraduate student in our lab # denotes high school student in our lab

1. Mack, C.M., Fitch, R.H., Hyde, L.A., Seaman, A.J., **Bimonte, H.A.**, Wei, W. and Denenberg, V.H. (1996) Lack of activational influence of ovarian hormones on the size of the female rat's corpus callosum. *Physiology and Behavior*, 60, 431-434.
2. **Bimonte, H.A.** and Denenberg, V.H. (1999) Estradiol facilitates performance as working memory load increases. *Psychoneuroendocrinology*, 24, 161-173.
3. **Bimonte, H.A.** and Denenberg, V.H. (2000) Sex differences in vicarious-trial-and-error on a water version of the radial-arm maze. *Physiology and Behavior*, 68, 495-499.

4. **Bimonte, H.A.**, Fitch, R.H., and Denenberg, V.H. (2000) Neonatal estrogen blockade prevents normal callosal responsiveness to estradiol in adulthood. *Developmental Brain Research*, 122, 149-155.
5. **Bimonte, H.A.**, Fitch, R.H., and Denenberg, V.H. (2000) Adult ovary transfer counteracts the callosal enlargement resulting from prepubertal ovariectomy. *Brain Research*, 872, 254-257.
6. **Bimonte, H.A.**, Hyde, L.A., Hoplight, B.J. and Denenberg, V.H. (2000) In two species, females exhibit superior working memory and inferior reference memory on the water version of the spatial radial-arm maze. *Physiology and Behavior*, 70, 311-317.
7. **Bimonte, H.A.**, Mack, C.M., Stavnezer, A.J. and Denenberg, V.H. (2000) Ovarian hormones can organize the rat corpus callosum in adulthood. *Developmental Brain Research*, 121, 169-177.
8. Stavnezer, A.J., McDowell, C.S., Hyde, L.A., **Bimonte, H.A.**, Balogh, S.A., Hoplight, B.J. and Denenberg, V.H. (2000) Spatial ability of XY sex-reversed female mice. *Behavioural Brain Research*, 112, 135-143.
9. Clark, M.G., Sherman, G.F., **Bimonte, H.A.**, and Fitch, R.H. (2000) Perceptual auditory gap detection deficits in male BXSB mice with cerebrocortical ectopias. *Neuroreport*, 11(4):693-6.
10. Hyde, L.A., Stavnezer, A.J., **Bimonte, H.A.**, Sherman, G.F. and Denenberg, V. H. (2002) Spatial and nonspatial Morris maze learning: impaired behavioral flexibility in mice with ectopias located in prefrontal cortex. *Behavioural Brain Research*, 133, 247-259.
11. Stavnezer, A.J., Hyde, L.A., **Bimonte, H.A.**, McDowell, C.S., and Denenberg, V.H. (2002) Differential learning strategies in spatial and nonspatial versions of the Morris water maze in the C57BL/6J inbred mouse strain. *Behavioural Brain Research*, 133, 261-270.
12. **Bimonte, H.A.**, Granholm, A.C., Seo, H., and Isacson, O (2002). Spatial memory testing decreases hippocampal amyloid precursor protein in young, but not aged, female rats. *Neuroscience Letters*, 298, 50-54.
13. Granholm, A.C., Hyde, L., **Bimonte, H.A.**, Ford, K., and Crnic, L. (2002) Estrogen restores cognition and cholinergic phenotype in an animal model of Down Syndrome. *Physiology and Behavior*, 77, 371-385.
14. **Bimonte, H.A.**, Nelson, M.E., and Granholm, A.C. (2003) Age-related deficits as working memory load increases: relationships with growth factors. *Neurobiology of Aging*, 24, 37-48.
15. Hunter, C.L., **Bimonte, H.A.**, and Granholm, A-C. (2003) Behavioral comparison of four and six month-old Ts65Dn mice: age-related impairments in working and reference memory. *Behavioural Brain Research*, 138, 121-131.
16. **Bimonte, H.A.**, +Hunter, C.L., Nelson, M.E., and Granholm, A-C. (2003) Frontal cortex BDNF levels correlate with working memory in an animal model of Down Syndrome. *Behavioural Brain Research*, 139, 47-57.
17. Hunter, C.L., Isacson, O., Nelson, M., **Bimonte-Nelson, H.A.**, Seo., H., Lin, L., Ford, K., Kindy, M., and Granholm, A-C. (2003) Regional alterations in amyloid precursor protein and nerve growth factor across age in a mouse model of Down's Syndrome. *Neuroscience Research*, 45(4):437-45.
18. **Bimonte-Nelson, H.A.**, Singleton, R.S., Nelson, M.E., Eckman, C.B., Barber, J., Scott, T.Y., and Granholm, A.C. (2003) Testosterone, but not non-aromatizable dihydrotestosterone, improves working memory and alters nerve growth factor levels in aged male rats. *Experimental Neurology*, 81(2):301-12.
19. **Bimonte-Nelson, H.A.**, Singleton, R.S., +Hunter, C.L., Price, K.L., Moore, A., and Granholm, A.C. (2003) Ovarian hormones and cognition in the aged female rat: I. Long-term, but not short-term, ovariectomy enhances spatial performance. *Behavioral Neuroscience*, 117, 1395-1406.
20. **Bimonte-Nelson, H.A.**, Singleton, R.S., +Williams, B.J., and Granholm, A.C. (2004) Ovarian hormones and cognition in the aged female rat: II. Progesterone supplementation reverses the cognitive enhancing effects of ovariectomy. *Behavioral Neuroscience*, 118, 707-714.

21. **Bimonte-Nelson, H.A.**, Nelson, M.E., and Granholm, A.C. (2004) Progesterone counteracts estrogen-induced increases in neurotrophins in the aged female rat brain. *Neuroreport*, 15, 2659-2663.
22. Hunter, C.L., **Bimonte-Nelson, H.A.**, Nelson, M.E., Eckman, C.B., Granholm, A.Ch. (2004) Behavioral and neurobiological markers of Alzheimer's disease in Ts65Dn mice: effects of estrogen. *Neurobiology of Aging*, 25, 873-884.
23. Kippin T.E., Fuchs R.A., Mehta R.H., Case J.M., Parker M.P., **Bimonte-Nelson H.A.**, See R.E. (2005) Potentiation of cocaine-primed reinstatement of drug seeking in female rats during estrus. *Psychopharmacology*, 182, 245-52.
24. +French, K.L., Granholm, A.C., Moore, A.B., Nelson, M.E., and ***Bimonte-Nelson, H.A.** (2006) Chronic nicotine improves working and reference memory performance and decreases hippocampal NGF in aged female rats, *Behavioral Brain Research*, 169, 256-262.
25. ****Bimonte-Nelson, H.A.**, Francis, K.R., Umphlet, C.D. and Granholm, A-C. (2006) Progesterone reverses the spatial memory enhancements of tonic and cyclic estrogen therapy in middle-aged female rats, *European Journal of Neuroscience*, 24, 229-242.
26. Williams B.J., **Bimonte-Nelson HA**, Granholm-Bentley AC. (2006) ERK-mediated NGF signaling in the rat septo-hippocampal pathway diminishes with age, *Psychopharmacology*, 88, 605-618.
27. French, K.L., **Bimonte-Nelson, HA**, Granholm, A-Ch. (2007) Galantamine effects on memory, spatial cue utilization and neurotrophic factors in aged female rats, *Cell Transplantation, Special Aging Issue*, 16, 197-205.
28. Sas A., ***Bimonte-Nelson H.A.**, Tyor WR. (2007) Increased Interferon-alpha in SCID mice with HIV encephalitis correlates with abnormal cognition, *AIDS*, 21, 2151-9.
29. ****Bimonte-Nelson H.A.**, Granholm, A.C, Nelson, M.E., Moore, A.B. (2008) Patterns of neurotrophin protein levels in male and female rats from adulthood to senescence, *Experimental Aging Research*, 34, 13-26.
30. Granholm A-Ch., ***Bimonte-Nelson H.A.**, Moore A.B., Nelson M., Freeman L.R, Sambamurti K. (2008) Effects of a saturated fat and high cholesterol diet on memory and hippocampal morphology in the middle-aged rat, *Journal of Alzheimer's Disease*, 14(2),133-145.
31. Mclaughlin, K. ***Bimonte-Nelson, H.**, Neisewander, J., Conrad, C. (2008) Assessment of estradiol influence on spatial tasks and hippocampal CA1 spines: Evidence that prolonged ovariectomy compromises 17 beta-estradiol effectiveness in altering CA1 spines, *Hormones and Behavior*, 54(3), 386-395.
32. +Talboom J.S., +Williams B.J., ^Baxley E., West, S. ****Bimonte-Nelson H.A.** (2008) Higher levels of estradiol correlate with better spatial memory in surgically menopausal young and middle-aged rats, *Neurobiology of Learning and Memory*, 90, 155-163.
33. Thirumangalakudi L., Prakasam A., Zhang R., ***Bimonte-Nelson H.A.**, Sambamurti K., Kindy M. and Bhat N. (2008) High cholesterol-induced neuroinflammation and amyloid precursor protein processing correlate with loss of working memory in mice, *Journal of Neurochemistry*, 106(1), 475-485.
34. Rao V.R., +Sas A., Eugenin E., Siddappa N.B., ***Bimonte-Nelson H.A.**, Berman J., Ranga U., Tyor W.R., and Prasad V.R. Reduced leukocyte chemotaxis and chemokine induction by a subtype C HIV isolate in vitro correlates with reduction in neuropathology and cognitive dysfunction in SCID mouse HIV encephalitis, *in press, Journal of Neuroscience*.
35. Huentelman M.J., Stephan D.A., +Talboom J.S., #Reiman D.M., Gerber J.D., Barnes C.A., Alexander G.E., Reiman E.M., ****Bimonte-Nelson H.A.** Peripheral delivery of a ROCK inhibitor improves learning and working memory, *in press, Behavioral Neuroscience*.
36. +Acosta J., Mayer L., Smith C., +Talboom J.S., Zay C.A., ^Scheldrup M., Audet R., ^Castillo J., Demers L., Enders C., ****Bimonte-Nelson H.A.** Premarin enhances memory, prevents scopolamine-induced amnesia and impacts the cholinergic system in middle-aged surgically menopausal rats, *in review, Hormones and Behavior*.

37. Sas A., ***Bimonte-Nelson H.A.**, Smothers C., Woodward J., Tyor W. Interferon alpha causes neuronal dysfunction in encephalitis, in review, *Science*.
38. ****Bimonte-Nelson H.A.**, +Talboom J.S., ^Sundin B., Zay C.A., Prokai-Tatrai K., Prokai, L., Treatment with a prodrug of estradiol facilitates memory in the absence of an increase in circulating estradiol levels and uterine stimulation, in review, *Neuropharmacology*.

Publications, in preparation:

39. +Acosta J.I., Mayer L., +Talboom J.S., ^Tsang C., ***Bimonte-Nelson H.A.** Transitional menopause improves memory only when residual androgens are removed, *in preparation*.
40. +Braden B.B., +Talboom J., ^Crain I., Prokai L., ^Scheldrup M., ***Bimonte-Nelson H.A.** The Women's Health Initiative progestin, the synthetic medroxyprogesterone acetate, impairs memory in aged surgically menopausal rats, *in preparation*.
41. +Talboom J.S., ^Crain I.D., +Engler E.B., ^Sundin B.S., Zay C.A., ***Bimonte-Nelson H.A.** Use it or lose it? A lifetime of cognitive practice improves memory in the aged rat: cognitive demand is necessary and enhancements transfer to a novel task, *in preparation*.
42. +Talboom J.S., ^Tsang C.W., +Braden B.B., +Acosta J.I., Prokai, L., ***Bimonte-Nelson H.A.** Tonic effects of Premarin, the WHIMS hormone therapy, on working memory in middle-aged female ovariectomized rats, *in preparation*.
43. +Engler E., Alexander G., ***Bimonte-Nelson H.A.** The cognitive effects of surgical ovarian hormone loss interact with age: correlations with markers of brain and endocrine aging, *in preparation*.
44. ***Bimonte-Nelson H.A.**, +Talboom J., Zay C., Huentelman M. PKC-zeta inhibition via TAT fusion affects working and reference memory, *in preparation*.
45. +Engler E., ^Bowman B., ^Crain I., +Braden B., ^Tsang C., ^Castillo J., ***Bimonte-Nelson H.A.** (2008) Rat performance on spatial and non-spatial maze paradigms interact with age and maze order, *in preparation*.

Book Chapter:

Fitch, R.H. and **Bimonte, H.A.** (2002) Hormones, brain, and behavior: putative biological contributions to cognitive sex differences. In: *Biology, society, and behavior: the development of sex differences in cognition*. Edited by: McGillicuddy-DeLisi, A. and DeLisi, R, Ablex Publishing, Westport, CT.

Papers Presented and Abstracts Published:

1. **Bimonte, H.A.** and Denenberg, V.H. (1997) Females acquire a water version of the radial arm maze faster than males. *Society for Neuroscience Meeting*.
2. **Bimonte, H.A.**, Stavnezer, A.J. and Denenberg, V.H. (1998) The sensitive window for ovarian hormone effects on the rat corpus callosum extends post-pubertally. *Society for Neuroscience Meeting*.
3. Stavnezer, A.J., McDowell, C.S., Balogh, S.A., **Bimonte, H.A.**, McGivern, R.F. and Denenberg, V.H. (1998) Independent effects of testosterone and the Y chromosome on spatial learning. *Knockouts and Transgenics Abstracts*.
4. **Bimonte, H.A.**, Fitch, R.H. and Denenberg, V.H. (1999) Perinatal estrogen organizes the rat brain permitting corpus callosum feminization in adulthood. *Society for Neuroscience Meeting*.
5. Clark, M.G., **Bimonte, H.A.**, Sherman, G.F. and Fitch, R.H. (1999) Cortical ectopia effects on rapid auditory processing in male BXSB mice. *Society for Neuroscience Meeting*.
6. **Bimonte, H.A.**, Nelson, M.E., Isacson, O., Seo, H., and Granholm, A.C. (2001) Rats that can't remember: relationships with neurotrophin levels. *Society for Neuroscience Meeting*.

7. Granholm A.C., **Bimonte, H.A.**, Ford, K.A., Hyde, L.A., Crnic, L.S., and Isacson, O. (2001) Estrogen reverses morphological, biochemical, and behavioral deficits in mice with segmental chromosome 16 trisomy (Ts65Dn). *International Meeting for Alzheimers Disease and Parkinsons Disease*.
8. Hunter, C.L., **Bimonte, H.A.**, Nelson, M.E., and Granholm, A.C. (2001) Working and reference memory in an animal model of Down Syndrome: a relationship with neurotrophin levels? *Society for Neuroscience Meeting*.
9. **Bimonte H.**, Singleton R, Nelson M, Scott T, and Granholm A-Ch. (2002) Androgens affect more than libido: relationships between androgens, memory, and growth factors in aged male rats, *Society for Neural Transplantation and Repair*, Keystone, Colorado. Abstract published in *Experimental Neurology*, 175 (A29): 437.
10. French, K.L., Nelson, M.E., Moore, A.B., **Bimonte, H.A.**, and Granholm, A.C. (2002) Investigations of nicotine effects on working and reference memory and neurotrophins in aged rats. *Society for Neuroscience Meeting*.
11. **Bimonte-Nelson H.**, Singleton R, Nelson M, Scott T, Eckman, C., Barber, J. and Granholm A-Ch. (2002) Testosterone improves memory and alters growth factor levels in aged male rats. *Society for Neuroscience Meeting (Press Release)*.
12. Hunter, C., Granholm, A.C., Nelson, M.E., **Bimonte-Nelson, H.A.**, Seo, H., Lin, L., Eckman, C.B., and Isacson, O. (2002) Neurobiological markers of Alzheimer's disease in Ts65Dn mice, an animal model of Down Syndrome. *Society for Neuroscience Meeting*.
13. **Bimonte-Nelson, H.**, Singleton R., Hunter, C., Price, K., Moore, A., and Granholm, A.C. (2003) Ovarian hormones and cognition in the aged female rat: I. Long-term, but not short-term, ovariectomy enhances spatial performance. *Society for Neuroscience Meeting*.
14. French, K., **Bimonte-Nelson, H.**, Granholm, A.C. (2003) Low doses of chronic nicotine enhance spatial memory in aged female rats. *Society for Neuroscience Meeting*.
15. French, K., **Bimonte-Nelson, H.**, Granholm, A.C. (2004) Dose-dependent effects of nicotine on spatial memory in aged female rats. *Aging Research Day, Medical University of South Carolina*.
16. **Bimonte-Nelson, H.**, Singleton, R., Williams, B. and Granholm, A.Ch. (2004) Progesterone impairs learning and memory in aged female rats. *Society for Neuroscience Meeting. (Press Release and Press Conference)*.
17. French, K.L., **Bimonte-Nelson, H.**, McLaughlin, J.T. and Granholm, A.Ch. (2004) Nicotine effects on spatial memory: exploring mechanisms. *Society for Neuroscience Meeting*.
18. Zaman, V., Singleton, R., Nelson, M., **Bimonte-Nelson, H.**, Granholm, A.Ch. (2004) Dopaminergic and noradrenergic regulation of cognitive deficits in Parkinson's Disease: a double lesion model. *Society for Neuroscience Meeting*.
19. Granholm A-Ch., Moore A.B., **Bimonte-Nelson H.**, Haugabook S., and Sambamurti K. (2004) A high fat, high cholesterol diet impairs working memory in middle-aged rats. *Society for Neuroscience Meeting. (Press Release and Press Conference)*.
20. Granholm, A.C.h., Umphlet, C., Moore, A.B., **Bimonte-Nelson, H.**, Nelson, M.E. and Shacham, S. (2005) Effects of PRX-03140, a serotonin 5-HT4 receptor partial agonist, on cognition and growth factor levels in the aged rat, *Society for Neuroscience Meeting*.
21. French, K.L., Granholm, A.Ch., **Bimonte-Nelson, H.** (2005) Galantamine alters strategy employed by aged female rats in a spatial task, *Society for Neuroscience Meeting*.
22. Tyor WR, Sas A, **Bimonte-Nelson, H.** (April 2005) Interferon-alpha in the pathogenesis of HIV encephalitis. *American Academy of Neurology Meeting*, Miami, FL.
23. Sas A, **Bimonte-Nelson, H.**, Tyor WR. (June 2005) Interferon-alpha in the pathogenesis of HIV encephalitis. *American Society for Virology meeting*, Penn State.
24. Granholm, A.C.h., Sambamurti, K., Moore, A.B., **Bimonte-Nelson, H.A.** (2005) Memory impairment in middle-aged rats on a high fat/high cholesterol. *International Psychogeriatrics*, 17: 100-100 Suppl. 2.

25. Prasad, V.R., Rao, V.R., Sas, A., Ranga, U., **Bimonte-Nelson H.A.** and Tyor W.R. (2006). Investigating the role of subtypes in inducing encephalitis in SCID mice. *International Society for Virology meeting*, Brazil. *American Society for Virology meeting*.
26. Tyor, W.R., Rao, V., Sas, A., **Bimonte, H.A.**, Ranga, U., Prasad, V. (2006) Clade C HIV-1 encephalitis in SCID mice results in less cognitive dysfunction than clade B. *Journal of Neurovirology*, 12, 82-82 P195 Suppl. 1.
27. Talboom J., Sundin B., Zay C., Williams B., **Bimonte-Nelson H.** (2006) Effects of tonic and intermittent estrogen replacement on spatial memory. *Society for Neuroscience Meeting*.
28. Terry D., Engler, E., Millan M., Zay C., Crain I., **Bimonte-Nelson H.** (2006) Ovarian hormone loss and cognitive decline at multiple timepoints during aging. *Society for Neuroscience Meeting*.
29. **Bimonte-Nelson H.**, Granholm A., Francis K. (2006) Progesterone counteracts the spatial memory enhancements initiated by tonic and cyclic estrogen therapy in middle-aged ovariectomized rats. *Society for Neuroscience Meeting*.
30. Zhang R., Werness K., **Bimonte-Nelson H.**, Zhui H., Kindy M., Sambamurti K., Gramholm A. Bhat N. (2006) A high-fat, high-cholesterol diet induces neuroinflammation and impairs working memory in mice. *Society for Neuroscience Meeting. (Press Release)*
31. Wright R., Harman J., Young M., Gomez J., Hamilton G., **Bimonte-Nelson H.**, Conrad, C. (2006) Environmental enrichment prevents chronic stress-induced spatial memory deficits. *Society for Neuroscience Meeting*.
32. Sas A., **Bimonte-Nelson H.**, Tyor W. (2007) Interferon-alpha causes cognitive dysfunction in HIV encephalitis. *Medical University of South Carolina, Grand Rounds Lecture Series*.
33. Talboom J., Sundin B., Zay C., **Bimonte-Nelson H.** (2007) Effects of estrogen on spatial memory: interactions with age. *Arizona Alzheimer's Consortium Annual Meeting*.
34. Talboom J., Crain I., Engler E., Sundin B., Zay C., **Bimonte-Nelson H.** (2007) Use it or lose it? A lifetime of cognitive practice improves memory in the aged rat: cognitive demand is necessary. *Arizona Alzheimer's Consortium Annual Meeting*.
35. Engler E., Sundin B., Zay C., **Bimonte-Nelson H.** (2007) The effects of ovariectomy depend on age and specific memory function. *Arizona Alzheimer's Consortium*.
36. **Bimonte-Nelson H.**, Francis K. (2007) Progesterone counteracts the spatial memory enhancements initiated by tonic and cyclic estrogen replacement in middle-aged ovariectomized rats. *Arizona Alzheimer's Consortium*.
37. Tyor W., Sas A., **Bimonte-Nelson H.** (2007) Neutralizing antibody to interferon-alpha treatment in SCID mice with HIV encephalitis. *International Society for Neurovirology Meeting*.
38. Talboom, J., Crain, I., Engler, E., Sundin, B., Zay, C, **Bimonte-Nelson, H.** (2007) Use it or lose it? A lifetime of cognitive practice improves memory in the aged rat: cognitive demand is necessary and enhancements transfer to a novel task. *Society for Neuroscience Meeting. (Press Release)*
39. Engler E., Alexander, G., Zay, C, **Bimonte-Nelson, H.** (2007) Age-related changes in the ability to handle an increasing working memory load: associations with gonadotropins and ovarian hormones. *Society for Neuroscience Meeting. (Press Release)*
40. Tyor W., Sas A., **Bimonte-Nelson H.**, Smothers C. (2008) Neutralizing antibody treatment against interferon-alpha in SCID mice with HIV encephalitis and interferon-alpha. *American Academy of Neurology Meeting*, Chicago, IL, published in *Neurology*, 70, A251.
41. Rao V.R., Sas A., Eugenin E., Siddappa N.B., **Bimonte-Nelson H.**, Berman J., Ranga U., Tyor W.R., and Prasad V.R. (2008) Reduced leukocyte chemotaxis and chemokine induction by a subtype C HIV isolate in vitro correlates with reduction in neuropathology and cognitive dysfunction in SCID mouse HIV encephalitis. *Cold Spring Harbor Retroviruses Meeting*.
42. Bowman B.L., Engler L., Crain I., Braden B., Tsang C., Castillo J., **Bimonte-Nelson H.** (2008) Performance on spatial and non-spatial maze paradigms interact with age and maze order. *School of Life Sciences 15th Annual Research Symposium, Arizona State University*.

43. Tsang, C., Acosta, C. Mayer, L., **Bimonte-Nelson, H.** (2008) Cognitive effects of surgical versus transitional menopause in a rodent model. *School of Life Sciences 15th Annual Research Symposium, Arizona State University.*
44. Engler E., Tsang C., Zay C., Nonnenmacher S., Liang W., Corneveaux J., Prokai L., Huentelman M., and **Bimonte-Nelson H.** (2008) Tonic Premarin enhances memory retention, increases cortical NGF and BDNF and alters hippocampal gene expression in middle-aged surgically menopausal rats. *Society for Neuroscience Meeting.*
45. Braden B., Talboom J., Crain I., Zay C., Prokai L., Scheldrup M., Acosta J., Engler E., Bowman B., Nonnenmacher S., and **Bimonte-Nelson H.** (2008) The Women's Health Initiative progestin, the synthetic medroxyprogesterone acetate, impairs memory in aged surgically menopausal rats. *Society for Neuroscience Meeting.*
46. Talboom J., Williams B., West S. and **Bimonte-Nelson H.** (2008) Higher levels of estradiol replacement correlate with better spatial memory in surgically menopausal young and middle-aged rats. *Society for Neuroscience Meeting.*
47. Acosta J., Mayer L., Smith C., Audet R., Castillo J., Demers L., Enders C., **Bimonte-Nelson H.A.** (2008) Premarin enhances memory, prevents scopolamine-induced amnesia and increases cortical acetylcholine levels in middle-aged surgically menopausal rats. *Society for Neuroscience Meeting.*
48. McLaughlin K., **Bimonte-Nelson H.**, Neisewander J., and Conrad C. (2008) Assessment of estradiol influence on spatial tasks and hippocampal CA1 spines: Hormone deprivation after ovariectomy compromises 17 β -estradiol effectiveness in altering CA1 spines. *Society for Neuroscience Meeting.*
49. Acosta J., Mayer L., Smith C., Audet R., Castillo J., Enders C., **Bimonte-Nelson H.** (2008) The Women's Health Initiative estrogen enhances memory, prevents scopolamine-induced amnesia and increases frontal cortex acetylcholine levels in middle-aged surgically menopausal rats. *Arizona Alzheimer's Consortium Annual Meeting.*
50. Bowman B., Engler E., Crain I., Braden B., Tsang C., Castillo J., **Bimonte-Nelson H.** (2008) Where were you, and where are you now? Rat performance on spatial and non-spatial maze paradigms interact with age and maze order. *Arizona Alzheimer's Consortium Annual Meeting.*
51. Braden B., Talboom J., Crain I., Prokai L., Scheldrup M., **Bimonte-Nelson H.** (2008) The Women's Health Initiative progestin impairs memory in aged surgically menopausal rats. *Arizona Alzheimer's Consortium Annual Meeting.*
52. Engler E., Tsang C., Zay C., Nonnenmacher S., Prokai L., **Bimonte-Nelson H.** (2008) Premarin enhances working memory during temporal challenge and increases BDNF in the cingulate gyrus in middle-aged surgically menopausal rats. *Arizona Alzheimer's Consortium Annual Meeting.*
53. Talboom J., Williams B., Baxley E., West S., **Bimonte-Nelson H.** (2008) Higher levels of estradiol replacement correlate with better spatial memory in surgically menopausal young and middle-aged rats. *Arizona Alzheimer's Consortium Annual Meeting.*
54. Tsang C., Acosta J., Talboom J. Mayer L., **Bimonte-Nelson H.** (2008) Cognitive effects of surgical versus transitional menopause in a rodent model. *Arizona Alzheimer's Consortium Annual Meeting.*
55. Prokai L., Prokai-Tatrai K., Koulen P, Merchenthaler I., Brodie A., **Bimonte-Nelson H.** (2008) Brain selective estrogen therapy. *International Symposium on Medicinal Chemistry, Published in Drugs of the Future, 33, Suppl. A, 276.*

Professional Affiliations:

Arizona Alzheimer's Consortium
American Society for Neural Transplantation and Repair
Society for Neuroscience
Women in Neuroscience

Invited Formal Platform Presentations:

- February 1998** Speaker, Neuroscience Fellowship Seminar, Biobehavioral Sciences Department, University of Connecticut.
“Estrogen Effects on Working Memory”
- March 1999** Speaker, Neuroscience Fellowship Seminar, Biobehavioral Sciences Department, University of Connecticut.
“Ovarian Hormones Actively Feminize the Corpus Callosum”
- March 2002** Invited speaker, Frontiers in Neuroscience Conference: Learning and Memory Symposium.
Medical University of South Carolina.
“Androgens Affect More than Libido: Testosterone and DHT Effects on Working and Reference Memory in Aged Male Rats”
- April 2002** Invited speaker, Sex Differences Colloquium: University of South Carolina.
“The Hormonal Basis of Sex Differences in Cognition”
Also led discussion on graduate school opportunities in Neuroscience and Psychology.
- June 2003** Invited speaker, Department of Ophthalmology, Medical University of South Carolina.
“Statistics and Experimental Design: Main Effects, Interactions, and Correlations”
- December 2003** Speaker, Neuroscience Seminar Series. Physiology and Neuroscience Department, Medical University of South Carolina.
“Got Hormones? Hormone Loss and Hormone Replacement Effects on Memory”
- March 2004** Invited Speaker, Wake Forest School of Medicine (CME course).
“Aging and Hormone Influences on Cognition and the Brain: Insight from Animal Models”
- December 2004** Invited Speaker, State University of New York, Binghamton.
“Cognitive Effects of Hormone Loss and Replacement: New Dimensions to an Old Story”
- January 2005** Invited Speaker, Arizona State University.
“Hormone Loss and Replacement: Effects on Cognition During Aging”
- February 2005** Invited Speaker: Florida Atlantic University.
“Cognitive Effects of Ovarian Hormone Loss and Replacement”
- April 2006** Guest Speaker: Psi Chi Convention, Tempe, Arizona.
“Got Hormones? Ovarian Hormone Loss and Replacement Effects on Memory”
- December 2006** Invited Speaker: University of Arizona.
“Ovarian Hormones, Memory and Aging”
- December 2006** Invited Speaker: University of Arizona Data Blitz.
“Lifelong Cognitive Practice and Brain Aging: A Longitudinal Study in the Rat”
- February 2007** Invited Speaker: Northern Arizona University.
“Got hormones? Cognitive Effects of Hormone Loss and Replacement: New Dimensions to an Old Story”
- June 2007** Invited Speaker: Mayo Clinic, Jacksonville, Florida, Aging and Alzheimer’s Disease Seminar Series.
“Cognitive Effects of Hormone Loss and Replacement During Aging”
- August 2007** Invited Speaker and Platform Member: Arizona State University, Tempe, AZ.
New Faculty orientation: “Getting Your Research Program Off to a Running Start”
- August 2007** Invited Speaker: Institute for Mental Health Research, Research Forum, Flinn Foundation, Phoenix, AZ.
“Cognitive Effects in a Transitional Versus Surgical Model of Menopause”

- February 2008** Arizona Alzheimer's Disease Center Retreat, Bisbee, AZ.
"From Adulthood to Senescence: Trajectory of Changes in Spatial Memory and Hippocampal Synapses After Ovarian Hormone Loss"
- April 2008** Invited Speaker, Barrow's Neurological Institute, Phoenix, AZ.
"Got hormones? Using Rodent Models to Study Cognitive Effects of Ovarian Hormone Loss and Replacement"
- April 2008** Invited Speaker, Woodside Community Service Board Members, Scottsdale, AZ.
"Of Mice and Rats and Men: How We Test Memory in Animal Models"
- April 2008** Invited Speaker, University of California Santa Barbara, Psychology Colloquium Series.
"Cognitive Effects of Ovarian Hormone Loss and Replacement During Aging"
- May 2008** Invited Speaker, Arizona Alzheimer's Consortium Annual Conference, Glendale, AZ. "Estrogen Enhances Memory and Protects Against Cholinergic Challenge During Aging: Effects in a Rodent Model"
- August 2008** Invited Speaker, Evelyn F. & William L. McKnight Brain Institute of the University of Florida, Gainesville, FL. "Mnemonic Improvements After Estrogen Treatment: Relation to Type, Regimen and Age."
- October 2008** Invited Speaker, Neurosciences Seminar Series, Medical University of South Carolina, Charleston, SC. "Estrogens Improve Specific Aspects of Memory Function: Relation to Neurobiological Variables and Associations with Aging."

Service:

Grant Reviewer:

- 2005 American Federation for Aging Research
2005 - 2008 Alzheimer's Association
2007 NIH Study Section ASG, National Institute on Aging
2007 Declined two additional requests to serve on NIH Study Section due to conflicts
2008 Appointed permanent member of NIH study section NIA-N (invited August 2008)

Field Reviewer (ad hoc):

- 2001 - 2007 Neurobiology of Aging
2002 - 2007 European Journal of Neuroscience
2002 Journal of Neuroendocrinology
2003 Journal of Neuroscience
2003 - 2006 Neurochemical Research
2004 - 2007 Behavioral Neuroscience
2004 Molecular Brain Research
2004 Pharmacology, Biochemistry & Behavior
2004 Regulatory Peptides
2005 - 2008 Hormones and Behavior
2005 - 2008 Neurobiology of Learning and Memory
2005 - 2007 Psychoneuroendocrinology
2006 - 2007 Brain Research
2006 European Journal of Pharmacology
2006 - 2008 Neuroscience Letters
2007 - 2008 Experimental Neurology
2007 International Journal of Neuropsychopharmacology
2007 Journal of Alzheimer's Disease
2007 Journal of Neurochemistry
2007 - 2008 Learning and Memory
2008 Age

2008	Behavioral Brain Research
2008	Behavioral and Brain Functions
2008	Current Aging Science
2008	Journal of the American Aging Association
2008	Journal of Comparative Neurology
2008	The Open Neuropsychopharmacology Journal

Reviewer for proposals for new books and journals:

2008	Reviewer of a proposal for new journal: Journal of Ovarian Hormone Research
2008	Reviewer of a proposal for new book from Oxford University Press

University Committees:

2007-present	Arizona State University Veterinarian Search Committee
2007-present	Arizona State University Behavioral Neuroscience Faculty Search Committee
2008	Appointments Committee

Committee Member for Graduate Theses, Primary Mentor and Chair:

Completed:

Joshua Talboom, M.S., completed 2007, Arizona State University.

In Progress:

Joshua Talboom, Ph.D., anticipated finish date 2011, Arizona State University.

Elizabeth Engler, M.S. and Ph.D., anticipated finish date 2012, Arizona State University.

Brittany Blair Braden, M.S. and Ph.D., anticipated finish date 2012, Arizona State University.

Jazmin Acosta, Ph.D., anticipated finish date 2009, Arizona State University.

Committee Member for Graduate Theses, Non-Primary:

Completed:

Sharie Haugabook, M.S. completed 2005, Medical University of South Carolina.

Kristen French, Ph.D. completed 2005, Medical University of South Carolina.

Katie McLaughlin, Ph.D. completed 2007, Arizona State University.

Ryan Wright, Ph.D., completed 2007, Arizona State University.

Arturo Zavala, Ph.D., completed 2007, Arizona State University.

In Progress:

Sarah Baran, Ph.D., anticipated finish date 2008, Arizona State University.

Ryan Meyers, Ph.D. anticipated finish date 2008, Arizona State University.

Kenneth Thiel, Ph.D., anticipated finish date 2010, Arizona State University.

Katie Coombs, Ph.D., anticipated finish date 2011, Arizona State University

Undergraduate Honors Theses, Primary Mentor and Chair:

Completed:

Ian Crain, completed 2006, Arizona State University.

Elizabeth Engler, completed 2006, Arizona State University, "Top Thesis Nominee."

Britny Sundin, completed 2006, Arizona State University.

Undergraduate Honors Theses, Committee Member:

Completed:

Alison Small, completed 2008, Barrow Neurological Institute and Arizona State University.

In Progress:

Ashlie Kucera, anticipated finish date 2008, Barrow Neurological Institute and Arizona State University.

Undergraduate Student Research Directed, Primary Mentor:

Tonetta Scott, 2002	Summer Undergraduate Research Minority Mentor Medical University of South Carolina
Edmund Baxley, 2003	Summer Undergraduate Research Mentor Medical University of South Carolina
Mariana Millan, 2005-2006	Arizona State University
Ian Crain, 2006-2007	Honors Psychology Undergraduate Thesis Primary Mentor School of Life Sciences Undergraduate Research Mentor Arizona State University
Elizabeth Engler, 2006-2007	Honors Psychology Undergraduate Thesis Primary Mentor “Top Thesis Nominee” School of Life Sciences Undergraduate Research Mentor Arizona State University
Britny Sundin, 2006-2007	Honors Psychology Undergraduate Thesis Primary Mentor School of Life Sciences Undergraduate Research Mentor Arizona State University
Jonathan Castillo, 2007-2008	Arizona State University
Bronson Bowman, 2007-present	Minority Access to Research Career Mentor School of Life Sciences Undergraduate Research Mentor Arizona State University
Candy Tsang, 2007-present	School of Life Sciences Undergraduate Research Mentor Arizona State University
Lisa Castillo, 2007-present	Arizona State University
Sean Nonnenmacher, 2008-present	School of Life Sciences Undergraduate Research Mentor Arizona State University
Melissa Scheldrup, 2008-present	School of Life Sciences Undergraduate Research Mentor Arizona State University

High School Student Research Directed, Primary Mentor:

David Reiman , 2006	Research performed at Arizona State University, Bimonte-Nelson lab
Jessie Koljonen, 2008-present	Gifted Program at The Payne Academy, Research Mentor Student at McClintock High School Research performed at Arizona State University, Bimonte-Nelson lab

Community Work-Related Service and Associated Honors:

- Brain Awareness Week, 2002 – 2004 in South Carolina:** Brought central nervous system tissues to multiple elementary through high school classrooms (approximately ten classrooms per year) Taught about brain/body relationships, how a neuron functions and careers in the sciences.
- Brain Awareness Month, 2005 – present in Arizona:** Brought central nervous system tissues to multiple elementary through high school classrooms. Taught about brain/body relationships, how a neuron functions and careers in the sciences. Also, arranged for others to contribute in the same manner so that additional classes could have the Brain Awareness experience. In 2007, we attended 32 classrooms. In 2008, we attended over 100 classrooms (visits approximated 1300 students).
- June 2006:** Talked to the community group “The Spirit of the Senses” on the topic of Aging and Hormones.
- October 2006:** Guest Neuroscientist at Career Day for Psychology students at Saguara High School, Scottsdale, AZ.
- May 2007:** Talked to the community group “The Spirit of the Senses.” Talk entitled: “Of Mice and Men: How animal models are a window into the brain.”

October 2007: Received funding from the Arizona State University Faculty Ambassador Program for Brain Awareness in the Community, 2008, \$600.

November 2007: Inclusion in the International Society for Neuroscience and the Dana Alliance for Brain Initiatives Brain Awareness Report Compilation for 2007, promoted on the World Wide Web.

November 2007: Received Woodside Sustained Community Service Award (plus \$2500 toward supplies for classroom visits) for bringing brain awareness to Arizona.

April 2008: Invited Speaker, Woodside Community Service Board Members, Scottsdale, AZ. "Of Mice and Rats and Men: How We Test Memory in Animal Models"

April 2008: Invited Speaker, Woodside Community Service Board Members, Scottsdale, AZ. "An Ode To Woodside: Brain Awareness in the Valley 2008"

Classroom-Based Instruction:

- 1994** **Teaching Assistant, Social Psychology**, Psychology Department, Richard Stockton College, Undergraduate class.
- 2001-2005** **Lecturer, Systems Neuroscience**, Physiology and Neuroscience Department, Medical University of South Carolina, Graduate and MD/PhD class.
Taught sections: Using Mazes to Test Learning and Memory: History and New Paradigms, Hormonal Modulation of Sex Differences in Cognition, Neurobiology of Learning and Memory.
- 2002-2003** **Primary Instructor, Introduction to Psychology**, Department of Psychology, College of Charleston.
- 2003-2005** **Lecturer, Neuroscience**, Physiology and Neuroscience Department, Medical University of South Carolina, Graduate and MD/PhD class.
Taught section: The Biological Basis for Cognition.
- 2004** **Lecturer for Seminar: The Power of Power: Power Analysis and Experimental Design for Grant Writing**. Physiology and Neuroscience Department, Medical University of South Carolina, for medical students, graduate students and faculty.
- 2006** **Primary Instructor, Neuroendocrinology**, Psychology Department, Arizona State University, Graduate and Upper Level Undergraduate class.
- 2006-2008** **Primary Instructor, Neurobiology of Learning and Memory**, Psychology Department, Arizona State University, Graduate and Upper Level Undergraduate class.
- 2005-2008** **Primary Instructor, Behavioral Neuroscience Seminar**, Psychology Department, Arizona State University, Graduate class.