

David S. Roane, Ph.D.
Department of Pharmaceutical Sciences
Bill Gatton College of Pharmacy
East Tennessee State University
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Personal Data

Married with children
D.O.B. September 11, 1953
Hobbies: Dual Sport motorcycling, Landscaping with tractors

Employment History

August 2006 to Present Professor and Chair, Department of Pharmaceutical Sciences, Bill Gatton College of Pharmacy East Tennessee State University

July 2008 to July 2010 Interim Associate Dean for Academic Affairs Bill Gatton College of Pharmacy East Tennessee State University

September 2003 Head, Department of Biology and K. Degree Endowed Professor of Biology, University of La. Monroe (ULM)

September 2000 Professor of Pharmacology, College of Pharmacy, ULM

August 1993 Associate Professor of Pharmacology, College of Pharmacy, ULM

July 1989 Assistant Professor of Pharmacology, School of Pharmacy, ULM,

Education History

1989 – Post-doctorate, Nutrition and Neuroscience, University of Georgia, Athens
1987 – Ph.D., Physiology, LSU Medical Center, New Orleans
1984 – B.S., Zoology, La. Tech University, Ruston, La.
1979 – B.A., Journalism, Drake University, Des Moines

Previous and Current Ancillary Appointments

Adjunct Professor, Neurobehavior, Pennington Biomedical Research Center, Baton Rouge
Adjunct Graduate Faculty, Division of Nutrition, Louisiana State University, Baton Rouge
Adjunct Graduate Faculty, University of Mississippi Medical Center, Jackson
Graduate Faculty, East Tennessee State University, Johnson City

Research Interests

- Generally: The role of the neuronal systems in the regulation of energy balance.
Specifically: ATP-sensitive K⁺ channels as modulators of neuronal activity with respect to glucose homeostasis, the regulation of body weight and the perception of pain.

Publications

30. Zhang Y, S.S. Yacoub, S.D. Brown, D.S. Roane. Evidence that K⁺ATP channels allow metabolic regulation of norepinephrine release in the rat hypothalamus. *Exp. Brain Res.* To be submitted Summer 2013.
29. Price, J.B., T.C. Jones, D.S. Roane, J. N. Pruitt, S.E. Riechert. Neurochemical levels correlate with population level differences in social structure and individual behavior in the polyphenic spider, *Anelosimus studiosus*. *J. Arachnology*. In review
28. Harirforoosh, S., Bossaer, J.B., Brown, S.D., Pond, B.B., Ramsauer, V.P. and Roane, D.S. Plagiarism among applicants for faculty positions. *Am J Pharm Ed.* **75(10)**, Article 211, 2011. This is a letter to the editor, and not peer-reviewed.
27. Cope Z.A., K.N. Thompson, A.B. Sheppard, D.M. Noel, D.S. Roane, R.W. Brown. Dopamine D₂ receptor priming enhances locomotor activation and dopamine release in the nucleus accumbens core in response to amphetamine. *Synapse*. **64(4)**:289-300, 2010.
26. Bayard M. M., R.D. Franks, J.A. Wadzinski, D. S. Roane. Valproate associated hyperammonemic encephalopathy. *J. Am. Board Fam. Med.* **20**:499-502, 2007.
25. Entry on “4-aminopyridine”, Encyclopedia of Toxicology, 2nd Edition, Philip Wexeler, Editor. Elsevier Publishing, 2005
24. Bogacka, I.U., D.S. Roane, X. Xi, J. Zhou, B. Li, D.H. Ryan and R.J. Martin. Expression levels of genes likely involved in glucose-sensing in the obese Zucker rat brain. *Nutr. Neurosci.* **7(2)**:67-74, 2004.
23. Zhang, Y., J. Zhou, C. Corrl, J.R. Porter, R. J. Martin, D.S. Roane. Evidence for hypothalamic K⁺ATP channels in the modulation of glucose homeostasis. *Eur. J. Pharmacol.*, **492(1)**:71-9, 2004.
22. Xi, X., D.S. Roane, J. Zhou, D.H. Ryan, R.J. Martin. Double-color fluorescence *in situ* hybridization with RNA probes *Biotechniques*, **34(5)**:914-6, 918, 2003.
21. Li, B., X. Xi, D. S. Roane, D. H. Ryan, R. J. Martin. Distribution of glucokinase, SUR1, GLP-1 receptor and NPY messenger RNA's in rat brain by quantitative real time RT-PCR. *Brain Res. Mol. Brain Res.* **113(1-2)**:139-42, 2003.
20. Zhou, J. D.S. Roane, X. Xi, I. Bogacka, B. Li, D.H. Ryan, R.J. Martin. Short term food restriction and re-feeding alter expression of gene likely involved in brain glucosensing. *Exp. Biol. Med.* **228(8)**:943-50, 2003.

19. Hill, R.A., S. Rudra, B. Peng, D.S. Roane, J.K. Bounds, Y. Zhang, A.A. Adloo, T. Lu. Hydroxyl-substituted sulfonylureas as potent inhibitors of specific [3H]Glyburide binding to rat brain synaptosomes. *Bioorganic Med. Chem.* **11**(9):2099-2113, 2003.
18. Zhang, Y. and D.S. Roane, Glibenclamide's action in the hypothalamus alters peripheral glucose homeostasis. *Eur. J. Pharmacol.* **424**(2):R1-R2, 2001.
17. Olivier, K., J. Liu, S. Karanth, H. Zhang, D. S. Roane and C. Pope. Glucose feeding exacerbates parathion-induced neurotoxicity. *J. Toxicol. Environ. Health*, **63**(4):253-71, 2001.
16. Mitchell, A., Brooks, S. and D.S. Roane, Pain and the pre-term infant. *Pain Mngmt. Nurs.* **1**(2):58-65, 2000.
15. Roane, D.S. and J.K. Bounds, ATP-sensitive K⁺ channels in the regulation of feeding: a hypothesis, *Nutr. Neurosci.*, **2**:209-255, 1999.
14. Bounds, J.K. and D.S. Roane, The effect of centrally-administered glibenclamide, tolbutamide and diazoxide on feeding behavior in rats. *Nutr. Neurosci.*, **2**:155-162, 1999.
13. Ross, W.H., Lawrence, L.W., Reddy, I.K., Dick, R.M., Roane, D.S., Schulte, M.K., Khan, M.A., Olivier, K.J., Sponberg, L.A. Implementation of a new course with a focus on active learning through integrated curricular approach. *J.Pharm. Teach.* **7**(2):15-34, 1999.
12. Bounds, J.K. and D.S. Roane. Dietary sucrose lowers nociceptive latencies independently of thermogenic effects. *Nutr. Neurosci.* **1**:367-372, 1998.
11. Ho, B., P.M. Venkatarangan, S.F., Cruse, C.N., Hinko, P.H., Andersen, A.M. Crider, A.A., Adloo, D.S., Roane and J.P. Stables. Synthesis of 2-piperidinecarboxylic acid derivatives as potential anticonvulsants. *Eur. J. Med. Chem.* **33**:23-31, 1998.
10. Roane, D.S., J.K. Bounds, C.Y-. Ang and A.A. Adloo. Quinpirole-induced alterations of tail temperature appears as hyperalgesia in the radiant heat tail-flick test. *Pharmacol. Biochem. Behav.* **59**(1):77-82, 1998.
9. Singh, S.K., D.S. Roane, I.K. Reddy, M.J. Durrani and M.A. Khan. Effect of additive on the diffusion of ketoprofen through human skin. *Drug Dev. Ind. Pharm.* **22**(5):471-474, 1996.
8. Honeycutt, M.S., B.L. Roberts, D.S. Roane. Cadmium disposition in the earthworm Eisenea fetida. *Ecotox. Environ. Saf.* **30**:143-150, 1995.
7. Roane, D.S. and N.E. Boyd. Centrally administered glibenclamide decreases food-intake. *Pharmacol. Biochem. Behav.* **46**:205-207, 1993.
6. Roane, D.S. and D. Paul. Evidence of hyperglycemic hyperalgesia by quinpirole. *Pharmacol. Biochem. Behav.* **41**(1):65-67, 1992.

5. Schoenbaum, G., R.J. Martin and D.S. Roane. Discontinuation of sustained sucrose feeding aggravates morphine withdrawal. *Brain Res. Bull.* **24(4)**:565-568, 1990.
4. Roane, D.S. and R.J. Martin. Continuous sucrose feeding decreases pain threshold and increases morphine potency. *Pharmacol. Biochem. Behav.* **35(1)**:225-229, 1990.
3. Schoenbaum, G.M., R.J. Martin and D.S. Roane. Relationships between sustained sucrose-feeding and opioid tolerance and withdrawal. *Pharmacol. Biochem Behav.* **34(4)**:911-914, 1989.
2. Roane, D.S., M.J. Iadarola and J.R. Porter, Decreased [3H]-naloxone binding and elevated dynorphin-A(1-8) content in Zucker rat brain. *Physiol. Behav.* **43(3)**:371-374, 1988.
1. Roane, D.S. and J.R. Porter. Nociception and opioid-induced analgesia in lean (FA/-) and obese (fa/fa) Zucker rats. *Physiol. Behav.* **38(2)**:215-218, 1986.

Abstracts and Papers Presented

57. Roane, D.S., J. Zhou, R.J. Martin Quantified methods for producing equivalent feeding due to food-restriction, glucoprivation and palatability. The Boshell Diabetes and Metabolic Diseases Research Conference at Auburn University, Auburn, AL., March 2012.
56. Roane, D.S., K.W. Bullins, A.S. Hanley AICAR-mediated alterations in norepinephrine release from hypothalamic slices The Boshell Diabetes and Metabolic Diseases Research Conference at Auburn University, Auburn, AL., March 2011
55. Price, J.B., T.C. Jones, D.S. Roane Octopamine levels correlate with population level differences in social structure in a polyphonic spider. *Soc. Neurosci. Abstr.*, San Diego, 2010
54. Roane, D.S., A. V. Shepherd, K. W. Bullins. AICAR inhibits NE release from hypothalamic slices. *Soc. Neurosci. Abstr.*, Chicago, 2009
53. Smith, M.L., J. J. Smith , D. S. Roane, R. W. Brown. Adolescent amphetamine sensitization in a rodent model of psychosis: Changes in accumbal dopamine using microdialysis. *Soc. Neurosci. Abstr.*, Chicago, 2009
52. Huggins, K.N., Z. A. Cope, A. B. Sheppard, D. S. Roane, R. W. Brown. Dopamine D₂ receptor priming enhances locomotor activation and dopamine overflow in the nucleus accumbens core in response to amphetamine: Role of D1 and D2 receptors. *Soc. Neurosci. Abstr.*, Chicago, 2009
51. Roane, D.S., A.V. Shepherd, K.W. Bullins. A hypothetical model for the stoichiometric regulation of GABA activity in the hypothalamic control of hypoglycemia-induced sympathetic outflow. The Boshell Diabetes and Metabolic Diseases Research Conference, Auburn University, Auburn, AL. March 6, 2009
50. Thompson, K.N., Z.A. Cope, A.B. Sheppard, D.S. Roane, R.W. Brown. Dopamine D₂ receptor priming enhances locomotor activation and dopamine release in the nucleus accumbens core in response to amphetamine. *Soc. Neurosci. Abstr.*, Washington, 2008

49. Cope Z.A. , A. B. Sheppard, I. D. Longacre, M. K. Perna, K. N. Thompson, D. S. Roane, R.W. Brown. Amphetamine sensitization in a rodent model of psychosis. *Soc. Neurosci. Abstr.*, Anaheim, 2007.
48. Roane, D.S., S.S. Yacoub. Hypothalamic glucose-sensing via K⁺ATP channels. IDeA Research Symposium. National Institute of Research Resources. Washington, D.C. 2006.
47. Roane, D.S. Biological data generation capabilities at ULM. LaHealth Grid Workshop. NSF. Louisiana Tech University, Ruston, 2006. (by invitation)
46. Roane, D.S., S.S. Yacoub. The glycemic effects of K⁺ATP channel modulation in the rat hypothalamus. INBRE Research Symposium, Louisiana State University, Baton Rouge 2006.
45. Roane D.S., S.S. Yacoub, J.G. LeBlanc., Tissue distribution of radiolabelled glibenclamide following long-term administration. CIBI BioResearch Symposium, Shreveport 2006.
44. Roane, D.S., S.S. Yacoub, J.G. LeBlanc. The hypothalamic actions of ATP-sensitive K⁺ channel agonism. *Exp. Biol. Abst.* San Francisco, 2006.
43. Yacoub, S.S., M. Ifabiyi, D. Richard, D.S. Roane. Central K⁺ATP Channels and Sulfonylurea Receptors as Potential Drug Targets. 4th Annual ULM Student Research Symposium. University of Louisiana Monroe. 2005. (2nd place, student competition in Sciences)
42. Yacoub, S.S. D.S. Roane. The Glycemic Effects of Centrally Administered 2-DG. Louisiana Academy of Sciences, Grambling State University. 2005.
41. Roane, D.S. The Physiologic and Pharmacologic Relevance and K⁺ATP Channels. BioResearch Day, Louisiana Tech University/LSUHSC-S/CERT, Technology Transfer Center, Shreveport. 2005.
40. Francis, A.R., K.L. McCutcheon, M.J. Keenan, C.E. O'Neil, R.J. Martin, D.S. Roane, J. Zhou, S.C. Danna, T.A. Garcia, M. Hegsted. The effects of resistant starch on weight gain and fat accumulation in rats. *Exp. Biol. Abst.* San Diego, 2003.
39. Roane D.S.* , Y. Zhang, J. Zhou, J.R. Porter, R. J. Martin. Evidence for hypothalamic K⁺ATP channels in the modulation of energy homeostasis. *Soc. Neurosci. Abstr.*, New Orleans, 2002.
38. Zhou J., D. S. Roane, D. H. Ryan, R. J. Martin*. Simple fasting and re-feeding change brain glucosensing gene expression in rats. *Soc. Neurosci. Abstr.*, New Orleans, 2002.
37. Danna, S.C., D. S. Roane, J. Zhou, M.F. Hawkins* and R. J. Martin. Feeding response to 2-deoxy-d-glucose in centrally administered streptozotocin rats. *Soc. Neurosci. Abstr.*, New Orleans, 2002.
36. Xi, X., D. S. Roane, D. H. Ryan, R. J. Martin*. Co-expression of sulfonylurea receptor and dopamine transporter genes in substantia nigra pars compacta (SNpc) of rat by *in situ* hybridization. *Soc. Neurosci. Abstr.*, New Orleans, 2002.

35. Bogacka, I.U., X. Xi, B.D. White*, D.S. Roane, R.J. Martin. Central glucose-sensing gene expression in the obese Zucker rat. *Soc. Neurosci. Abstr.*, New Orleans 2002.
34. Zhang, Y. and D.S. Roane, Involvement of ATP-sensitive K⁺ channels in modulation of electrical stimulation-evoked [3H]norepinephrine release from rat hypothalamus. *Exp. Biol. Abst.* New Orleans, 2002.
33. Danna,S.C., J. Zhou, D. Roane, D.H. Ryan and R.J. Martin, Equivalent feeding measurements in 2-deoxy-D-glucose (2-DG) and food restricted rats. *Exp. Biol. Abst.* New Orleans, 2002.
32. Zhang, Y. and D.S. Roane, The hypothalamic effects of glibenclamide on blood glucose in Rats. *Soc. Neurosci. Abstr.* San Diego, 2001.
31. Zhang. Y. and D.S.Roane ATP-sensitive K⁺ channels may allow metabolic modulation of norepinephrine release in the hypothalamus. *Exp. Biol. Abst.*, Orlando, 2001.
30. Martin, C.N., Y. Zhang and D.S. Roane, The effects of bioflavonoids in the *hydra* feeding assay. *Exp. Biol. Abst.*, Orlando, 2001.
29. Zhang, Y. and D.S. Roane, ATP-sensitive K⁺ channels modulation of norepinephrine release from hypothalamic synaptosomes. *Soc. Neurosci. Abstr.* New Orleans, 2000.
28. Zhang, Y. and D.S. Roane, Pharmacologic evidence of K⁺ATP channels as feeding regulators in *Hydra littoralis*. *Exp. Biol. Abst.*, San Diego, 2000.
27. Zhang, Y. and D.S. Roane, ATP-Sensitive K⁺ channels in the regulation of feeding in Hydra, *SEPS Abstr.*, University of Louisiana at Monroe, 1999.
26. Bounds, J.K. and D.S. Roane. Differential effects of ATP-sensitive K⁺ blockade on feeding behavior. *SEPS Abstr.* Vanderbilt Univ. Med. Ctr, 1998.
25. Bounds, J.K., P.R. Harp and D.S. Roane Central administration of glibenclamide diminishes clonidine-induced feeding. *Soc. Neurosci. Abstr.* **23**:516,1997.
24. Roane D.S., A.A. Adloo and J.K. Bounds. Dopamine (D2/D3) receptor agonism and ATP-K⁺ channel blockade differentially alter food-intake in rats. *Exp. Biol. Abst.* 1997.
23. Bounds, J.K., J. Boyd, A.A. Adloo and D.S. Roane. ATP-sensitive potassium channel blockade inhibits 2-deoxyglucose induced feeding. *SEPS Abstr.* 1996.
22. Adloo, A.A., J.K. Bounds, N.J. Leidenheimer and D.S. Roane. Evaluation of (+) piperidinecarboxylic acid derivatives as potential anticonvulsants. *SEPS Abstr.* 1996. (1st place poster)
21. Olivier, K., J. Liu, P. Harp, J. Bounds, D. Roane and C. Pope. Modulation of parathion-induced neurotoxicity by glucose feeding. *South Central Society of Toxicology Abstracts.* 1996.
20. Bounds, J.K., A.A. Adloo and D.S. Roane. Maximization of conditions for testing the effects of

ATP-sensitive K⁺ blockade on feeding behavior. *FASEB J Abs.*, 1996.

19. Roane, D.S., J. Bounds, A. Adloo and C.Y. Ang. Alteration of tail-flick latency by treatments that affect tail-temperature. *FASEB J Abs.* **9**(3):A100, 1995.

18. Adloo, A., B. Ho, D.S. Roane and A.M. Crider. Synthesis and evaluation of piperidinecarboxylic acid derivatives as potential anticonvulsants. *FASEB J Abs.* **9**(3):A394, 1995.

17. Rudra, S., R.A. Hill and D.S. Roane. Synthesis of hydroxyl-substituted sulfonylureas: towards the development of CNS-selective ATP-sensitive potassium channel modulators. *Abs. 21st Annual MALTO Mtg. Houston*, 1994.

16. Rudra, S., R.A. Hill and D.S. Roane. Synthesis of hydroxyl-substituted sulfonylureas: towards the development of CNS-selective ATP-sensitive potassium channel modulators. *Abs. Am. Chem. Soc., Washington*, 1994.

15. Roane, D.S. and C.Y. Ang. Examples of the importance of tail temperature on tail-flick latency. *Internat. Behav. Neurosci. Soc. Abs.* **3**:15, 1994.

14. Pope, C., J. Chaudhuri, T. Chakraborti, S. Chanda, P. Harp, J. Liu and D. Roane. Up regulation of muscarinic receptors by the organophosphate (OP) insecticide, chlorpyrifos. *Soc. Neurosci. Abs.* **19**:429, 1993.

13. Roane, D.S. and N.E. Boyd. Evidence for the involvement of the ATP-sensitive potassium channel in the regulation of food-intake. *Internat. Behav. Neurosci. Soc. Abs.*, 1992.

12. Roane, D.S. and N.E. Boyd. Decreased Food-intake and morphine analgesia following central glyburide. *Soc. Neurosci. Abs.* **18**(2):1429, 1992

11. Roane, D. S. and J.W. Crim. Potential mu-opioid receptor subtype specificity of ¹²⁵I labelled DAGO, [D-alan², NME-Phe⁴, Glyol] enkephalin. *Soc. Neurosci. Abs.* **17**(1):821, 1991.

10. Roane, D.S., V. Kunjathoor, J.E. Broussard, P. Roy. Quinpirole lowers nociceptive thresholds and attenuates morphine analgesia. *FASEB Abs.* **5**(1):A860, 1991.

9. Roane, D.S., G.M. Schoenbaum and R.J. Martin. Interactions between sucrose feeding and morphine dependence and withdrawal. *Soc. Neurosci. Abs.* **15**(1):637, 1989.

8. Roane, D.S., G.M. Schoenbaum and R.J. Martin. Dietary Modulation of endogenous opioid function. *FASEB Abs.* **3**(4):5895, 1989.

7. McDaniel, T.H., D.S. Roane, R.N. Pilon and R.J. Martin, Early prediction of obesity in Zucker rats using thermography. *FASEB Abs.* **3**(3):701, 1989.

6. Hausman, D.B., D.S. Roane and R.J. Martin. Metabolic effects of growth hormone (GH) administration in sucrose supplemented rats. *North Am. Assoc. for the Study of Obesity Abs.* 1988.

5. Roane, D.S., S.A. Averitt, R.N. Pilon and R.J. Martin. Thermographic profiles of body surface temperatures in lean and obese Zucker rats. *FASEB Abs.* **2**(5):A1222, 1988.
4. McDaniel, T.H., D.S. Roane, B.J. Mullen, D.B. Hausman and R.J. Martin. Growth hormone and high sucrose diet effects on food intake and body composition. *FASEB Abs.* **2**(5):A1340, 1988.
3. Roane, D.S. and J.R. Porter. Increased sensitivity to painful stimuli and decreased potency of morphine in the obese Zucker rat. *Fed. Proc.* **45**:605, 1986.
2. Porter, J.R., D.S. Roane, B.D. White and A.D. Hartman. Does a defect exist in a specific serotonergic brain area of the obese Zucker rat? *The Physiologist*, APS abs **29**(4):150, 1986.
1. Roane, D.S. and J.R. Porter. Evidence for a defective endogenous opioid system in the obese Zucker rat. *SEPS Abstr.* 1986.

Grants, Contracts and Fellowships

Proposed and in review

Increasing reproduction rate without compromising lifespan: possible mechanisms of methionine supplement in *Drosophila*. CoPI with Lev Yampolsky, PI NSF 1326324

Funded, active and completed

21. "Spiders on the clock" Role: Co-investigator with TC Jones, \$418,000, NSF 1257133, Planned start date: July 2013-2016

20. "Strengthening of the University teaching potential at the University of Warmia and Mazury in Olsztyn." Role: CoPI and Host. Iwona Bagacka CoPI and Guest. European Social fund and the European Union. \$12,000, 2013.

19. A Genetic Strategy to Restore Impaired Noradrenergic Function by Increasing Expression of Noradrenergic Phenotypes in the Locus Coeruleus in Parkinson's Disease Pre-clinical Models. Role: Co-PI, Meng Yang Zhu, PI. Michael J Fox Research Foundation. Amount of award: \$78,000. 2012-2014.

18. Instrumentation development grant: Shimadzu IT-TOF Mass Spectrometer. Role: CoPI, (*de facto* PI) primary author and coordinator with Dr. Stacy Brown. Health Resource Service Administration. Amount of Award: \$276,000. 2008.

17. Louisiana's Biomedical Research Network (INBRE II) 2P20RR016456-04A1 PUI representative for ULM, Steering Committee member and Co-Director of the Cell Molecular Biology Core. National Institutes of Health, NCCR. Harold Silverman, PI, Total award to Louisiana: \$16,557,238; Subcontract to ULM: \$2,000,000 under my supervision; award to my lab: \$600,000. 2005-2010. Resigned 2006 following Hurricane Katrina.

16. "2004 Howard Hughes Medical Institute's Undergraduate Biological Sciences Education Program at ULM", Role: Co-investigator with F. Pezold, PI, Amount funded: \$1,000,000.00 HHMI 2004-2009.
15. "Hypothalamic glucose regulation through K⁺ATP channels" Role: PI, Amount funded: \$49,000.00. Agency: Diabetes Trust Fund. 2004-07.
14. "Hypothalamic K⁺ATP channels and glucose-sensing" Role:PI, Amount funded: \$62,366.00. Agency: Louisiana Biomedical Research Network/NIH 2P20RR016456-04A1. 2003-04.
13. Subcontract, Department of Defense contract on Military Nutrition, DAMD 17-97-2-7013, 2001-2003, (through Pennington Biomedical Research Center). \$47,221.00
12. The ULM biotherapeutic protein purification and analysis facility. LEQSF, 2000, \$70,715.00 Co-investigator with Dean Reardon, PI.
11. Editorial contract for Rhodes and Pflanze's Human Physiology, 4th ed. with Harcourt College Publishers, 2000, undisclosed.
10. "Bioflavonoids and the hydra feeding response" \$5,000, Role: PI, Frontiers 2000 award, American Physiological Society, Summer support for high school Biology teacher, Carolyn Martin, 2000.
9. "SEPS Annual Meeting Support" Smith, Kline Beecham Pharmaceuticals, 1999, Role: Meeting coordinator \$2500.
8. Consulting contracts with the Office of the Louisiana State Attorney General, Role: Consultant, \$22,500 1999-2005.
7. NEH/NSF Summer Workshop for course development on "Nature vs. Nurture." Role: Participant, Dartmouth College, Hanover, NH, 1996, \$4,000.
6. "Autoradiographic analysis of ingested radionuclides in Eisenea fetida" Role: Contractor, Waterways Experiment Station, U.S. Army Corp of Engineers, Vicksburg, MS, 1996, \$10,200.
5. "A CD ROM based course in Physiological Pharmacology" Role: PI, NLU Teaching and Learning Center, and School of Pharmacy, 1995, \$13,875.
4. "Sucrose-feeding effect on opioid receptor binding." Role: PI, American Association of Colleges of Pharmacy, Washington, D.C. 1990, \$5,000.00.
3. "Data Acquisition Enhancement" Role: PI, Smith, Kline and French Laboratories, Philadelphia, PA, 1992, \$2,500.00.
2. "Mono-iodo D-Ala-N-Met-Phe Glyol Binding," Role: PI. Multiple Peptide Systems, San

Diego, CA. 1992, \$3,500.00.

1. "Opioid Pharmaceuticals," Role: PI. National Institute of Drug Abuse Drug Supply System, 1990, \$5,000.00

Awards and Honors

Hooder, Class of 2012 Bill Gatton College of Pharmacy
Inaugural Hooder, Class of 2010, Bill Gatton College of Pharmacy
2007 Teacher of the year, Class of 2010, Bill Gatton College of Pharmacy
Mortar Board, Honorary Membership selected by ULM chapter 2004-2005
Rho Chi, Pharmacy Student Honor Society, Professor of the Year, 2003-2004
Sabbatical Leave, Neurobehavior lab -- Pennington Biomedical Research Center, 2001-2002
Outstanding Professor, College of Pharmacy, ULM 2001 Student Council
CenturyTel's "Accent on Excellence" Award, 2000
Outstanding Professor, College of Pharmacy, ULM, 1999, ULM Alumni Association
Outstanding Professor, College of Pharmacy and Allied Health Sciences, NLU, 1996.
Outstanding Honors Colloquium, NLU Honors Students, 1994.
"Favorite Professor" Baptist Student Union, 1992
"New Investigator Award", American Association of Colleges of Pharmacy, 1990.
"Outstanding Graduate Research Award", Sigma Xi, LSU Medical Center, 1987.
"Who's Who Among Students in American Colleges and Universities," 1987.
"Young Investigator Award" Innovative Research of America, Inc., 1986.

Journal Referee (*ad hoc*)

"Neuroscience and Biobehavioral Reviews"	"Brain Research Bulletin
"Biochemical Pharmacology"	"Physiology and Behavior"
"Pharmacology, Biochemistry and Behavior"	"Peptides"
"Journal of Pharmaceutical Sciences"	"Journal of Ethnopharmacology"
"Nutritional Neuroscience"	"American Journal of Physiology"

Organizations

Phi Lambda Sigma, Faculty advisor, 2010
Phi Kappa Phi, -- Vice president 2001-2002 and President, 2003-2005
Louisiana Institute of Toxicology -- charter member, 1994
Southeastern Pharmacology Society -- life member, 1994, President 1999-2000
Rho Chi, Beta Chi Chapter, 1993
International Behavioral Neuroscience Society -- founding member, 1992-1995
The Society for Neuroscience, 1989-Present
American Physiological Society, 1988-Present.
Sigma Xi, The Scientific Research Society, 1988-2005.

Invited Presentations (selected)

Department of Chemistry, ETSU 2011
Department of Internal Medicine, ETSU, 2010
Department of Chemistry Honors Banquet, ETSU, 2009

Appalachian Chapter of the American Chemical Society, Eastman Chemical, 2008
 University Honors Colloquium, ULM, annually 1992 – 2005
 “Works in Progress Seminar” Pennington Biomedical Research Center 2002
 Dept. of Physiological Sciences, Oklahoma State University, 2000
 Sigma Xi, ULM Chapter, 1999
 Inns of Court, Federal District Court, Alexandria, LA, 1998
 Pennington Biomedical Research Center, LSU, 1997
 Sigma Xi, La. Tech Univ., 1996
 Department of Nutrition, Texas Tech Univ., Lubbock, 1994
 Psi Chi Honors Society, Dept. Psychology, NLU, 1994.
 Department of Biomedical Engineering, La. Tech Univ., Ruston, La. 1992
 Symposium, American Institute of Nutrition, FASEB, Washington, D.C., 1990.
 Department of Pharmacology, LSU Medical Center, Shreveport, 1990.
 Endocrine Physiology Seminar Series, Tulane Medical Center, New Orleans, 1987.

Louisiana State Board of Pharmacy Continuing Education Presentations

“New Drug Update,” 1996 presented in Baton Rouge and Monroe
 "New Drug Update," 1993 presented in Hammond, Baton Rouge, Lafayette, Lake Charles,
 Alexandria, Shreveport and Monroe.
 "Chemical Dependency in Pharmacy," 1991, presented in Hammond, Baton Rouge, Lafayette,
 Lake Charles, Alexandria, Shreveport and Monroe

Teaching Experience

LSU Medical Center (1983-1987)

Physiology Laboratory -- School of Medicine, School of Dentistry
 Neurophysiology section -- School of Nursing

University of Georgia (1987-1989)

Guest lecture, Graduate Course in Metabolism and Nutrition
 Advisor in University of Georgia Honors Program (Geoff Schoenbaum)

University of Louisiana at Monroe

Anatomy and Physiology Lab II	2006
Howard Hughes Summer program at ULM team taught	2005 - 2006
Histology, Department of Biology	2004
Introduction to Toxicology (Tox 101) team taught	1996 - 2001
Pharmacy Care Lab I (Phar 321) team taught	1997 - 2001
Pharmacy CareLab II (Phar 322) team taught	1998 - 1999
Honors Seminar (Honors 410H) team taught	1998, 2001
Pharmacology Laboratory (Phar 436) team taught	1996 - 2003
Physiological Pharmacology (Phar 411)	1995 - 2003
Physiological Pharmacology (Phar 412)	1998 - 2003
Pharmacy Pharmacology I (Phar 413)	1989 - 1995
Pharmacy Pharmacology II (Phar 414) team taught	1994, 2003 - 2004
Pharmacy Pharmacology III (Phar 415) team taught	1991

Neuropharmacology (Phar 527) team taught	1993, 1995, 1997, 2000
Nursing Pharmacology (Phar 280)	1990 – 1992, 2001
Honors Colloquium (Honors 110H) (one lecture/semester)	1992, 1994, 1996, 1998
Pharmacodynamics of Substance Abuse (Phar 505)	1990 – 1997, 1999
Advanced Pharmacology lab (Phar 522) team taught	1990 - 2001
Advanced Pharmacology (Phar 521) team taught	1989 - 2001
Advanced Toxicology (Phar 527) team taught	2000

East Tennessee State University

Pharmacy Pharmacology I	2007 - present
Anatomy and Physiology I and II	2007 - present
Non-Medicinal Drug Use (team taught)	2009 - present

Graduate and Honors Student Advisement

Major Advisor

Geoffrey Schoenbaum, B.S. Honors, Interactions between sustained sucrose-feeding and opioid dependence and subsequent naloxone-precipitated withdrawal. Dept. of Foods and Nutrition, University of Georgia 1989. Schoenbaum is currently Section Chief at NIH-NIDA.

Ahmad A. Adloo, Ph.D. “Evaluation of 2-(±)-Piperidinecarboxylic acids derivatives as potential anticonvulsants.” Graduated 1996. Currently employed in Product Safety at MaryKay Cosmetics, Dallas, Tx

Jeffery Bounds, Ph.D. “Role of the K⁺ATP channel in the regulation of food intake.” Graduated: December 1998. Currently employed in product development at Wyeth/Pfizer Pharmaceuticals

Yang Zhang, Ph.D., “Hypothalamic K⁺ATP channels related to the maintenance of nutrient homeostasis in the rat.” Graduated: August 2002. Currently a research associate at Brigham and Women’s Hospital (Harvard)

Candace Y. Henderson, Pharm. D. Honors, Present and Future Treatment Options for the Obese Type 2 Diabetic Patient: Sulfonylureas vs. Thiazolidinediones, Graduated Spring, 2003. Currently employed by Rite-Aid Pharmacies

Shenouda Yacoub, M.S. (Biology) Evidence for the central actions of glibenclamide. Graduated Summer 2006. Currently employed by Alcon Pharmaceuticals, Dallas Tx.

Graduate Student Advisory Committee Member

East Tennessee State University

Dustin Cooper, Ph.D. candidate, Biomedical Sciences – Pharmaceutical Sciences (Harirforoosh)
 Jennifer Price, Ph.D. candidate, Biomedical Sciences – Biological Sciences, (Jones)
 Marla Perna, Ph.D. 2012, Biomedical Sciences – Anatomy and Cell Biology (Brown)
 Jennifer Price, M.S., 2011 Biological Sciences (Jones)

University of Louisiana at Monroe

13 M.S. graduates and 18 Ph.D. graduates, 1990-2006 in Pharmaceutical Sciences and Biology

University of Mississippi Medical Center, Jackson

Anita Mitchell, Ph.D. 2003, School of Nursing

Louisiana State University

Bing Li, Ph.D. 2004, Division of Nutrition. Louisiana State University/Pennington Biomedical

Representative Service Assignments

National

External reviewer for faculty tenure, ILR College of Pharmacy, Texas A&M 2009

External reviewer for faculty tenure, Office of the Provost, University of Pittsburgh, Titusville. 2005

Diabetes Trust Fund Medical and Scientific Committee, Reviewer 2002-2005

Regional

Southeast Pharmacology Society, Councilor 1997-1999, President, 2000-2001

State

Biology Honors Review, King College 2008

Grant Proposal Reviewer, Louisiana Biomedical Research Network 2004-2006

External reviewer for faculty tenure, Dean of Sciences, LSU, Shreveport, 2005

Louisiana Center for Educational and Research Excellence (CERT) 2004 to 2006

NIH/Louisiana Biomedical Research Network Steering Committee, 2003 to 2006

Louisiana Medicaid Interdisciplinary Medicine and Pharmacy Task Force 1995-1997

On Campus Committees

ETSU

Tenure and Promotion, College of Public Health 2010-present

University Committee on Animal Care -- IACUC (Vice Chair) 2007-2008, (Chair) 2008-present

Executive Committee, Council of Chairs 2011 to present, Chair for 2013-2014

University Research Advisory Council 2010-present

University Scientific Integrity Inquiry Committee (Chair) 2012

Biomedical Sciences Graduate Program Review Team 2008

University Workload and Compensation Committee

(Chair of the Compensation Committee) 2007-2008

Board of Directors, JH Quillen VA Medical Center Research Corporation 2008-present

SACS Faculty Committee 2007 (ad hoc)

ETSU – College of Pharmacy

Executive Committee – Founding member 2006 to present

Leadership Team – Founding member 2006 to present

Past member or current member of most major college committees:

ULM (representative list)

University Strategic Planning Committee, Phase 2, 2004
Editor, "Renaissance," College of Arts and Sciences Newsletter 2003
University Retention Committee 2002-2006
University Honors Council 1990-1996, 2003-2006
University Fiscal Planning and Review, 2000-2003
University Scholarship Committee, 1995-98
University Academic Appeals Committee, 1990-2004
School of Pharmacy accreditation committees for, curriculum, faculty and outcomes, 1999-2003

Local Community Committees and Volunteer Work (representative list)

Cubmaster and Den Leader, Cub Scout Den 2, Pack 230, Quachita Valley Council, 1995-1996
Northeast Louisiana Regional Science Fair Judge 1996-2000
Suicide Family Support group 1993-2004
Adult Leader, Tennessee Outreach Project (Mountain T.O.P.) 2003, 2004, 2005
Food for the Multitude, St Thomas Episcopal Church, Carter County 2009-present
Sponsor for The Alliance of Continued Learning 2008-present
Leadership 2015, Johnson City Chamber of Commerce, 2010-2011
Holston Presbytery, Committee on Ethics and Justice, 2013