

CURRICULUM VITAE

Name: Michael Jay Meldrum

Personal Data:

Home: 119 S.W. 75th Terrace
Gainesville, Florida 32607
(352) 332-3079

Office: Department of Pharmacodynamics
College of Pharmacy, Box 100487
J. Hillis Miller Health Center
Gainesville, Florida 32610
(352) 392-8101
Email: meldrum@cop.ufl.edu

Birth date: December 24, 1948, Ogden, UT, USA

Marital Status: Married, 2 children (Melanie-4/15/80; Michael-2/11/82)

Education Background:

1970-1973 B.A., Weber State College, Ogden, UT
Major: Zoology; Minor: Chemistry

1974-1976 M.S., Idaho State University, Pocatello, ID
Pharmacology, with proficiency in German
Thesis Advisor: Gary E. Isom
Thesis: **Neurochemical Correlates of Morphine-Induced
Respiratory Depression**

1976-1980 Ph.D., The Ohio State University, Columbus, OH
Pharmacology
Dissertation Advisor: Michael C. Gerald
Dissertation: **Amphetamine Effects on Directly Stimulated Skeletal
Muscle**

Research and Teaching Experience:

1974-1976 Graduate Teaching Assistant - College of Pharmacy Idaho State
University.

1976-1977 Graduate Teaching Assistant - College of Pharmacy, Ohio State
University.

1977-1980 Graduate Research Assistant - College of Pharmacy, Ohio State
University. Research on the effects of amphetamines on skeletal
muscle.

1981-1985	Postdoctoral Research Associate, Department of Pharmacology, St. Louis University School of Medicine. Research on the adrenergic mechanisms in experimental hypertension.
1982-1983	Research Fellow, American Heart Association, Missouri Affiliate, Department of Pharmacology, St. Louis University School of Medicine. Research on the effects of sodium diets on the adrenergic nervous system in hypertension.
1985-1991	Assistant Professor, Department of Pharmacodynamics, College of Pharmacy, University of Florida.
1991-Present	Associate Professor, Department of Pharmacodynamics
1989, 1991	Ad Hoc member American Heart Association Florida Affiliate, Peer Review Research Committee.
1990-1993	Graduate Student Coordinator, Department of Pharmacodynamics, College of Pharmacy, University of Florida.
1993-2002	Chairman, Department of Pharmacodynamics, College of Pharmacy, University of Florida.
1998-Present	Chairman, Curriculum Committee, College of Pharmacy, University of Florida

Awards & Honors:

1982-1983	Postdoctoral Research Fellow - American Heart Association, Missouri Affiliate.
1996	Chosen to attend the Academic Management Workshop. University of Florida, May 19-21, 1996.
1997-1999	Elected to the University Senate
1998	Chosen to Attend AACP Curriculum Workshop, May 1998, Washington DC
2000	Chosen to attend AACP Curriculum Workshop, May 2000, Washington D.C.
2001	Chosen to attend Faculty Technology in the classroom program. Trained with and received Lap-top computer for use in the classroom.
2003	Chosen to attend AACP Curriculum Workshop, May 2003, Washington DC.
2003	Nominated by students for 2003-2004 Teacher of the Year in the College of Pharmacy
2004	Nominated by students for 2004-2005 Teacher of the Year in the College of Pharmacy
2004	Asked to write introductory chapter for new textbook on Pharmacology and Ototoxicity for Audiologists
2005	Nominated by students for 2005-2006 Teacher of the Year in the College of Pharmacy

2005	Elected Faculty delegate to AACP meeting in July 2006
2006	Chosen as "Teacher of the Year in the College of Pharmacy" 2005-2006
2007-2010	Elected as Department of Pharmacodynamics representative to College of Pharmacy Faculty Governance Committee
2008-2011	Elected to the University Senate

Affiliations:

1976	Sigma XI Research Society
1978	Rho Chi Pharmaceutical Honor Society
1980	Society for Neuroscience
1988	Southeastern Pharmacology Society
1989	The American Society of Hypertension
1989	Center for Neurobiology of Aging, University of Florida
1990	Center for Neurobiological Sciences
1993	Florida Brain Institute
1994	Associate Faculty Member, Geriatric Research, Education and Clinical Center
1997	Society for Experimental Biology and Medicine

References:

Dr. William J. Millard Ph.D., Executive Associate Dean
College of Pharmacy
University of Florida
Box 100484, JHMHC
Gainesville, FL 32610
(352) 273-6305

Dr. Maureen Keller-Wood
College of Pharmacy
University of Florida
Box 100484, JHMHC
Gainesville, FL 32610
(352) 392-8798

Dr. Gayle Brazeau, Ph.D. Associate Dean
School of Pharmacy
State University of New York at Buffalo
429A Cook Hall
Amherst, New York 14260-1200
(716) 645-2848

Publications:

Articles:

1. Isom, G.E., Meisheri, K.D., Meldrum, M.J.: A long-acting silicone delivery system for morphine and naloxone administration. Journal of Pharmacological Methods :121-129, 1978.
2. Isom, G.E. and Meldrum, M.J.: Morphine induced respiratory depression-Involvement of norepinephrine and serotonin. Proceedings of the Western Pharmacological Society, 23:89-92, 1980.
3. Meldrum, M.J. and Isom, G.E.: Role of monoaminergic systems in morphine induced respiratory depression. Neuropharmacology 20: 169-175, 1981.
4. Gerald, M.C., Meldrum, M.J. and Skau, K.A.: Biphasic amphetamine effects in skeletal muscle contractions: noncholinergic mechanisms. Research Communications in Chemical Pathology and Pharmacology 35:3-16, 1982
5. Meldrum, M.J., Snider, R.M. and Gerald, M.C.: Cholinergic-independent effects of amphetamine on mammalian skeletal muscle contractions. Neuropharmacology 2:439-443,1982.
6. Westfall, T.C., Grant, H., Naes, L., and Meldrum, M.J.: The effect of opioid drugs on the release of dopamine and 5-hydroxytryptophan from rat striatum following activation of nicotinic-cholinergic receptors. European Journal of Pharmacology 92:35-42, 1983.
7. Westfall, T.C., Meldrum, M.J., Badino, L., and Earnhardt, J.T.: Noradrenergic transmission in the isolated portal vein of the spontaneously hypertensive rat. Evidence for alterations in prejunctional receptor function. Hypertension 6:267-274, 1984.
8. Meldrum, M.J., Xue, C.-S., Badino, L. and Westfall, T.C.: Angiotensin facilitation of noradrenergic neurotransmission in central tissues of the rat: Effects of sodium restriction. Journal of Cardiovascular Pharmacology 6:989-995, 1984.
9. Meldrum, M.J., Xue, C.-S., Badino, L. and Westfall, T.C.: Effect of sodium depletion on the release of ³H-norepinephrine from central and peripheral tissue of the Wistar-Kyoto and spontaneously hypertensive rats. Journal of Cardiovascular Pharmacology 7:59-65, 1985.
10. Westfall, T.C., Xue, C.-S., Meldrum, M.J. and Badino, L.: The effect of sodium depletion on the facilitory effect of angiotensin on adrenergic neurotransmission in the rat portal vein. Blood Vessels 22:15-24, 1985.
11. Meldrum, M.J. and Westfall, T.C.: Comparison of Norepinephrine release in hypertensive rats: I Hypothalamic and brainstem tissues. Clinical and Experimental Hypertension A8: 201-219, 1986.
12. Westfall, T.C. Carpentier, S., Naes, L., Meldrum, M.J.: Comparison of norepinephrine release in hypertensive rats: II Caudal artery and portal vein. Clinical and Experimental Hypertension A8:221-237, 1986.
13. Meldrum, M.J. and Westfall, T.C.: Angiotensin facilitation of ³H-norepinephrine release in central tissue of spontaneously hypertensive but not Wistar-Kyoto rats: Effects of sodium

- depletion. Journal of Cardiovascular Pharmacology 8(3):582-587, 1986.
14. Meldrum, M.J., Westfall, T.C.: ^3H -Norepinephrine release in hypothalamus and brainstem of Dahl-salt sensitive and resistant rats. Clinical and Experimental Hypertension A8:1395-1412, 1986.
 15. Westfall, T.C., Badino, L., Naes, L., Meldrum, M.J.: Alterations in the field-stimulation induced release of endogenous norepinephrine from the coccygeal artery of Spontaneously Hypertensive and Wistar-Kyoto rats. European Journal of Pharmacology 135:433-437, 1987.
 16. Xue, C-S., Westfall, T.C., Meldrum, M.J.: Effects of β -adrenoceptor agonists on vascular smooth muscle contraction and transmitter release in portal vein from spontaneously hypertensive rats. ACTA Pharmacologica Sinica 8:45-49, 1987.
 17. Westfall, T.C., Meldrum, M.J., Carpentier, S., Naes, L., Zhang, S-Q.: Alterations in release of norepinephrine at the vascular neuroeffector junction in hypertension. Blood Vessels 24:94-99, 1987.
 18. Westfall, T.C., Carpentier, S., Beinfeld, M.C., Meldrum, M.J.: Prejunctional and postjunctional effects of neuropeptide Y at the noradrenergic neuroeffector junction of the perfused mesenteric arterial bed of the rat. Journal of Cardiovascular Pharmacology 10:716-722, 1987.
 19. Westfall, T.C., Qualy, J.M., Meldrum, M.J., Zhang, S.Q., Carpentier, S and Naes, L.: Central and peripheral alterations in noradrenergic transmission in experimental Hypertension: Modulation by prejunctional receptors. Journal of Cardiovascular Pharmacology 10: (Supp 4) S62-S67, 1987.
 20. Dawson, R., Meldrum, M.J.: Increased 3,4-Dihydroxyphenylacetic acid (DOPAC) levels in spontaneously hypertensive rats (SHR) during the development of hypertension. Neuroscience Letters 86:346-350, 1988.
 21. Dawson, R. Jr., Wallace, D.R., Meldrum, M.J.: Endogenous Glutamate release from frontal cortex of adult and aged rats. Neurobiology of Aging: 10(2), 665-668, 1989.
 22. Meldrum, M.J., Singletary, N., Dawson, R.D.: Salt-induced upregulation of renal D_2 -adrenoceptors is not indicative of salt-related increases in blood pressure in SHR. Hypertension 16:49-54, 1990.
 23. Meldrum, M.J.: Effects of potassium supplementation on blood pressure, electrolytes, and ^3H -norepinephrine release in spontaneously hypertensive rats. Pharmacology 41:67-74, 1990.
 24. Katovich, M.J., Meldrum, M.J., Vasselli, J.R.: Beneficial effects of dietary Acarbose in the diabetic rat. Metabolism 40:1275-1282, 1991.
 25. Meldrum, M.J., Glenton, P., Dawson, R.: ^3H -D-Aspartic Acid release in adult and aged Fischer-344 rats. Neurochemical Research 17:151-156, 1992.
 26. Meldrum, M.J., Glenton, P.: ^3H -Norepinephrine release in caudal artery of SHR and WKY: Effects of altered salt diets. Pharmacology 44:19-25, 1992.
 27. Dawson, R., Meldrum, M.J.: Norepinephrine content in cardiovascular tissues from the aged Fischer-344 rat. Gerontology 38:185-191, 1992.
 28. Katovich, M.J., Meldrum, M.J.: Effects of insulin and acarbose alone and in combination in the

- female streptococin-induced diabetic rat. Journal of Pharmaceutical Sciences **82**: 1209-1213, 1993.
29. Patterson, T.A., Kim, E.K., Meldrum M.J., Dawson, R. Jr.: Glutamate efflux from rat brain slices and cultures: A comparison of the depolarizing agents potassium, 4-aminopyridine, and veratrine. Neurochemical Research. **20**: 225-232, 1995
30. Ried, L.D., Brazeau, G.A., Kimberline, C., Meldrum, M.J., McKenzie, M. : Students' Perceptions' of their Preparation to Provide Pharmaceutical care. Am. J. Pharm. Educ **66**: 347-356, 2002
31. Ried, L.D., Motycka, C., Mobley, C., Meldrum, M.J.: Comparing burnout of Student Pharmacists at the founding campus with student Pharmacists at a distance campuses. Am. J. Pharm. Educ. **70**(5): article 114, 2006

Book Chapters:

1. Westfall, T.C., Meldrum, M.J., Badino, L. and Naes, L.: Noradrenergic transmission in blood vessels and brain of hypertensive animals and the influence of dietary sodium. Springfield Blood Vessel Symposium, Basic and Clinical Aspects. Southern Illinois University School of Medicine, pp. 21-25, 1983.
2. Westfall, T.C., Galloway, M.P., Meldrum, M.J., Sax, R.D., Earnhardt, J.T. and Leighton, H.J.: Role of nerve impulse traffic and hypertension on prejunctional adrenoceptor function. In: Vascular Neuroeffector Mechanisms, 4th International Symposium (eds., J.A. Bevan, R.A. Maxwell, N. Fujiwara, S. Skibata, M. Toda, M. Kikuo), Raven Press, pp. 117-124, 1983.
3. Westfall, T.C., Meldrum, M.J., Badino, L. and Xue, C.-S.: Noradrenergic transmission in blood vessels: Influence of hypertension and dietary sodium. In: Catecholamines, Part A: Basic and Peripheral Mechanisms, Proceedings of the 5th International Catecholamine Symposium, Neurology and Neurology 8A, (eds. E. Usdin, A. Carlsson, A. Dahlstrom and J. Engel), Alan R. Liss, New York, pp. 319-326, 1984.
4. Westfall, T.C. and Meldrum, M.J.: Ganglionic blocking agents, In: Modern Pharmacology, 2nd edition, ed. by C.R. Craig and R.E. Stitzel. Boston, Little Brown, 1985.
5. Westfall, T.C. and Meldrum, M.J.: Alterations in the release of norepinephrine at the vascular neuroeffector junction in hypertension. Annual Review of Pharmacology **25**:621-641, 1985.
6. Westfall, T.C., Xue, C.-S., Carpentier, S. and Meldrum, M.J.: Modulation of Noradrenaline release by presynaptic adrenoceptors in experimental hypertension. In: Pharmacology of Adrenoceptors, Ed. by E. Scabadi, C.M. Bradshaw, and S.R. Naborski, McMillian, London, pp. 179-186, 1985.
7. Westfall, T.C., Zhang, S-Q, Carpentier, S., Naes, L. and Meldrum, M.J. Local modulation of noradrenergic neurotransmission in blood vessels of normotensive and hypertensive animals In: Central and peripheral mechanism of cardiovascular regulation, Eds. A. Margro, W. Osswald, D. Reis, P. Vanhoutte, Plenum Press, New York pp. 117-133, 1986.
8. Dawson, R. Jr., Meldrum, M.J., Wallace, D.R.: Excitotoxin Mediated Neuronal Loss and the Regulation of Excitatory Amino Acid release in the aging brain. In. Novel Approaches for the treatment of Alzheimers Disease. Eds. E.M. Meyer, J.W. Simpkins, Plenum Press, New York, pp. 319-328, 1989.

9. Meldrum, M.J., Moran, P., and Dawson, R.: Regulation of glutamate release in aging. In: Treatment of Dementias: A New Generation of Progress. (Eds. E. Meyer, J.W. Simpkins, J. Yamamoto, F.T. Crews). Plenum Press, New York, pp 407-425, 1992.
10. Katovich, M.J. and Meldrum, M.J.: Positive effects of dietary acarbose alone or in combination with insulin in the streptozotocin-induced diabetic rat. In: Drugs in Development, Vol. 1. - Glucosidase Inhibition: Potential Use in Diabetes. (Eds. J.R. Vasselli C.A. Maggio, and A. Schriabine), Neva Press, Branford, CT., pp 109-122, 1993.
11. Meldrum, M.J., Tu, R., Patterson, T.A., Dawson, R., Petty, T.: Taurine's effects on blood pressure, urinary sodium, potassium and calcium excretion. In: Taurine in Health and Disease (Ed. R.J. Huxtable), Plenum Press, pp 207-215, 1994.
12. Meldrum, M.J.: An Introduction to Pharmacology. In: Pharmacology and Ototoxicity for Audiologists. (Ed. K Campbell) Thompson Delmar, pp 1-9, 2006

Abstracts:

1. Meldrum, M.J. and Gerald, M.C.: Mechanisms involved in the blocking and enhancing effects of amphetamine on directly stimulated rat skeletal muscle. The Pharmacologist 22:181, 1980.
2. Meldrum, M.J. and Gerald, M.C.: Studies on the mechanisms involved in the blocking and enhancing effects of amphetamine on directly stimulated rat skeletal muscle. 1980 Graduate Student Research Forum, ICSARER Society, 1980.
3. Snider, R.M., Meldrum, M.H. and Gerald, M.C.: Effects of methylphenidate on neuromuscular transmission and muscle contraction in vitro. Federation Proceedings 40:242, 1981.
4. Meldrum, M.J., Badino, L. and Westfall, T.C.: Role of dietary sodium on noradrenergic neurotransmission. Federation Proceedings 41:8049, 1982.
5. Meldrum, M.J., Badino, L. and Westfall, T.C.: Influence of dietary sodium on noradrenergic neurotransmission in hypertensive rats. Society for Neuroscience 8:431, 1982.
6. Meldrum, M.J., Badino, L. and Westfall, T.C.: Effects of angiotensin II on noradrenergic neurotransmission in SHR and WKY maintained on normal and low sodium diets. Federation Proceedings 42:5161, 1983.
7. Meldrum, M.J., Badino, L., Carpentier, S. and Westfall, T.C.: Noradrenergic neurotransmission in various models of experimental hypertension. Federation Proceedings 43:300, 1984.
8. Westfall, T.C., Badino, L. and Meldrum, M.J.: Field stimulation induced release of endogenous norepinephrine from coccygeal artery of normotensive and hypertensive rats. Federation Proceedings 43:299, 1984.
9. Westfall, T.C., Meldrum, M.J., Carpentier, S. and Qualy, J.: Central and peripheral noradrenergic neurotransmissions in hypertensive and sodium depleted rats. IUPHAR Ninth International Congress of Pharmacology Abstracts, 1984.

10. Mereu, G., Meldrum, M.J., Westfall, T.C., Hu, X.T. and Wang, R.Y.: Influences of amphetamines and haloperidol on dopamine terminal autoreceptors. Society for Neuroscience **10**:69, 1984.
11. Meldrum, M.J. and Dawson, R.: Cerebrospinal fluid levels of sodium and amine metabolites in normotensive and hypertensive rats. Society for Neuroscience **12**:527, 1986.
12. Smith, C.D., Katovich, M.J. and Meldrum, M.J. Time course alterations in VSM α -adrenergic system in DOCA/NaCl Rats. Federation Proceedings **46**:1255, 1987.
13. Meldrum, M.J., Dawson, R.; Urinary catecholamine excretion in salt-sensitive and salt-resistant SHR and WKY. Society for Neuroscience **13**:747, 1987.
14. Katovich, M.J., Meldrum, M.J. and Soltis, E.E.: NaCl treatment alters vascular adrenergic responsiveness in the Dahl rat. FASEB Journal **2**(5):A967, 1988.
15. Meldrum, M.J., Wallace, D.R. and Dawson, R. Jr.: Endogenous glutamate release from frontal cortex slices of adult and aged rats. Society for Neuroscience **14**:1009, 1988.
16. Katovich, M.J., Meldrum, M.J. and Vaselli, J.R.: Effects of 7 weeks of acarbose treatment on metabolic and thermal parameters in diabetic rats. The Physiologist **31**:A20, 1988.
17. Meldrum, M.J., Singletary, N., Dawson, R.Jr.: Lack of Relationship between NaCl Induced increases in renal α_2 -adrenoceptors and blood pressure in salt-sensitive (SHR-S) and salt-resistant (SHR-R) SHR. FASEB Journal **3**: (4) A 1030, 1989.
18. Meldrum, M.J., Eich, C., Dawson, R: Differences in salt appetite in salt-sensitive (SHR-S) and salt-resistant SHR (SHR-R). Society for Neuroscience **13**:596, 1989.
19. Katovich, M.J., Meldrum, M.J., Vasselli, J.R.: Beneficial effects of acarbose treatment in the streptozotocin-induced diabetic rat. 2nd International Meeting, Lessons from Diabetics, Jerusalem, 1990.
20. Meldrum, M.J., Dawson, R.: Glutamate release in the aged rat. Excitatory Amino Acid Receptors in the Brain, Montreal Neurological Institute, Montreal, 1990.
21. Katovich, M.J., Meldrum, M.J., Vasselli, J.R.: Effects of chronic acarbose treatment in streptozotocin induced diabetic rats. European Association for the Study of Diabetics, International Meeting, 1990.
22. Meldrum, M.J., Glenton, P., Dawson, R.: ^3H -D-Aspartic Acid release in cortex and hippocampus of adult and aged Fischer 344 rats. Society for Neuroscience, **16**:680, 1990.
23. Dawson, R., Meldrum, M.J.: Norepinephrine content and release in cardiovascular tissues from adult and aged Fischer 344 rats. Society for Neuroscience **16**:26, 1990.
24. Meldrum, M.J., Moran, P.: Differences in angiotensin II-induced drinking in salt-sensitive and salt-resistant SHR. The Physiologist **34**: 238, 1991.
25. Katovich, M.J., Meldrum, M.J.: Effects of Combined Acarbose and Insulin Treatment in the STZ Diabetic Rat. FASEB J. **7**(4):A847, 1993.

26. Meldrum, M.J., N. Nwanna, P. Petty. Regulation of ^3H -D-Aspartic Acid (CH-D-ASP) Uptake in Temporal Cortex and Hippocampal Slices. Society for Neuroscience 19:921, 1993.
27. Meldrum, M.J., Tu. R., Dawson, R., Petty, P. Taurine's Effects on Blood Pressure, Urinary Sodium, Potassium and Calcium Excretion. International Symposium on Taurine in Health and Disease, Sept. 1, 1993.
28. Zaulyanov, L.L., Green P.S. Meldrum, M.J. and Simkins, J.W. Glutamate Receptor Requirement for Neuronal Death from Anoxia-reoxygenation: In vitro Model for Assessment of the Neuroprotective Effects of Estrogen. Society for Neuroscience 24:467, 1998.
29. Perez, E.J., Green, P.S., Meldrum, M.J., Simpkins, J.W.: 17β -estradiol attenuates mitochondrial toxicity of A β (1-43) and A β (23-35) in SK-N-SH neuroblastoma cells. Society for Neuroscience 25: 343, 1999
30. Hua, H.Y., Richards E.M., Meldrum M.J., Keller-Wood M.: Corticoid Receptor regulation after acute adrenalectomization in ewes. Society for Neuroscience 26: 418, 2001
31. Reid, L.D., Kimberline, C., Meldrum, M.J., McKenzie, M., Brazeau, G.: Survey of Students Perceptions of Preparedness for Pharmacy Practice Tasks for Curricular Continuous Quality Improvement. AACP Abstracts 2001.
32. Nankano, Y., Hirko, A.C., Smith, A.D., Peris, J., Dawson, R., Meldrum, M.J., Meyer, E.M.: Characterization of dopaminergic neurons derived from mouse embryonic stem cells. Society for Neuroscience, 29: 300.13, 2003
33. Motycka, C.A., Rose, R.L., Ried, D.L., McKenzie, M.W., Mobley, C., Sloan, K.B., Meldrum, M.J.: Comparison of individual students' and Preceptors Global Assessments of Students' Preparation for Entry Level Practice. Am. J. Pharm Ed; 71(3) Article 60, 2007

Monographs:

1. Katovich, M.J., Meldrum, M.J.: Diabetes Mellitus; Pathophysiology, Manifestations and Management. Pharmacy Power-PAK, Vol 3, #1, Tampa, 1990.
2. Meldrum, M.J. Congestive Heart Failure, Pathophysiology and Treatment. Pharmacy Power-PAK, Vol 3, #12, Tampa, 1990.

Grants Funded:

1. Pharmaceutical Manufacturers Association Research Starter Grant. Dietary sodium on norepinephrine release in hypertension. Jan. 1 1986 - Dec. 30 1987, \$20,000.
2. Florida Heart Association. Sodium effect on norepinephrine release in hypertension. July 1 1986 - June 30 1987, \$28,277.
3. Florida Heart Association. Norepinephrine release: Inhibition by sodium deficient diets. July 1 1987 - June 30 1988, \$29,955.

4. Univ. of Florida Department of Sponsored Research Development Award. Central presynaptic receptors in hypertension. May 1 1987 - April 30 1989. \$18,000.
5. Florida Heart Association. Differential salt-sensitivity in spontaneously hypertensive rats. July 1 1988 - June 30 1990. \$59,145.
6. Univ. of Florida College of Pharmacy BRSG. Endogenous Glutamate from IN Vitro Brain Slices. Sept 1 1988 - Sept 1 1989. \$5,000.
7. American Federation for Aging Research (AFAR) Inc. Alterations in glutamate release in aging. July 15, 1989 - July 15, 1990. \$23,260.
8. Florida Heart Association. Mechanism of Differential Salt-sensitivity in spontaneously Hypertensive rats. July 1, 1990 - Dec 30, 1991. \$29,985.
9. Florida Heart Association: Role of Angiotensin in salt-sensitive hypertension. July 1, 1991-June 30, 1993. \$79,949.
10. University of Florida, College of Pharmacy BRSG. "Novel calcium channels involved in glutamate release". Sept. 1991-April 1992, \$3,500.
11. Alzheimer's Association. "Adrenergic and Cholinergic Modulation of Cortical and Hippocampal Glutamate Release." Dec. 1991- Feb. 28, 1993, \$25,000.
12. University of Florida, DSR. Graduate Research Assistantship, July 1, 1994-March 31, 1995, \$7,876.
13. University of Florida, DSR. Research Development Award, "Neurotransmitter Function in Anoxic Turtle Brain", May 1996, April 1998, \$20,000.

Teaching Experience:

Lectured in the following courses:

1985-1986	PHA 4560	Pathophysiology
	PHA 4930	Seminar in pharmacy Careers
	PHA 6910	Research Methods in Pharmacodynamics
1986-1987	PHA 3500	Human Anatomy & Physiology (Cardiovascular and Respiratory Physiology)
	PHA 4560	Pathophysiology (Cardiovascular-Respiratory)
	PHA 6935	Foundations in Pharmacodynamics
1987-1988	PHA 3500	Human Anatomy and Physiology (Cardiovascular)
	PHA 4560	Pathophysiology (Cardiovascular-Respiratory)
	PHA 3501	Human Anatomy and Physiology (Respiratory)
1988-1989	PHA 4560	Pathophysiology (Respiratory)
	PHA 4511	Pharmacology II
1989-1999	PHA 4510	Pharmacology I
	PHA 4511	Pharmacology II
1996-Present	GMS 7593	Neurobiology of Aging
1992-Present	PHA 6540	Neurochemical Foundations of Pharmacodynamics
1998-Present	PHA 5515	Introduction to Pharmacology
1998-Present	PHA 5516, 5517	Pharmacological Basis of Therapeutics I & II
2001-Present	PHA 5933	Auditory Pharmacology

2002-present	CAS 7391	Audiologic Assessments in A Medical Setting – distance education course, revised lecture, participated in Chat room discussions on topic
2003-2005	PHA 5561	Physiological Basis of Disease (Stroke)
2003-Present	PHA 6521C	Methods in Pharmacodynamics
2003-Present	PHA 6936	Topics in Pharmacodynamics

Coordinated the following courses:

1986-1991	PHA 4511	Pharmacology II
1987	PHA 6935	Foundations in Pharmacodynamics
1988	PHA 6936	Topics in Pharmacodynamics
1991-Present	PHA 6521C	Research Techniques in Pharmacodynamics
1994-1999	PHA 4510	Pharmacology I
	PHA 4511	Pharmacology II
1998-Present	PHA 5516	The Pharmacological Basis of Therapeutics I
	PHA 5517	The Pharmacological Basis of Therapeutics II
2001-Present	PHA 5933	Auditory Pharmacology
2003- 2006	PHA 6521C	Methods in Pharmacodynamics

Committees:

A. College Of Pharmacy Committees

1986-1989	Pharmacy School Admissions and Academic Performance Committee
1986-1993	College Instrument Repair Committee
1987-1988	College Committee for the Development of Equipment Acquisition Plan
1988	Ad Hoc Committee for the Development of Faculty Orientation
1990	Task Force on the Future of Pharmacy
1990-1993	Graduate Studies Committee
1990-1993	Graduate Student Coordinator
1993-1995	Teaching Incentive Program Review Committees
1994-1996	College Leadership Council
1993-2002	Executive Committee
1994-1998	Chair, Faculty Committee to write Policy and Procedure Manual for College.
1996-1997	Ad Hoc Committees, to Review First and Second Year New Curriculum
1997-1999	Faculty Senate
1998-present	Chair, Curriculum Committee
1998-2003	Member of CCT for College
1999-2001	Committee for the College of Pharmacy Self-study for accreditation
1999-2001	Chair, subcommittee of Self-study for curriculum for accreditation.
2003- present	Curriculum Assessment Team
2003 -2004	Academic Performance Committee
2003-2004	UF Health Center Academic Performance Committee
2005-present	Committee for the College of Pharmacy Self-study for accreditation
2005-2006	Chair, subcommittee of Self-study for curriculum for accreditation
2006-2008	Tenure and Promotion committee
2007-2010	Faculty Governance Committee
2008-2011	Faculty Senate

B. Faculty Search Committees

1988	Chairman Faculty Search Committee for Pharmacodynamics
1988	Visiting Faculty Search for Pharmacodynamics
1989	Visiting Faculty Search for Pharmacodynamics
1989	Faculty Search Committee, Department of Physiology, College of Medicine
1990	Faculty Search Committee, Department of Physiology, College of Medicine
1990	Lecturer in Pharmacology Search Committee, Department of Pharmacodynamics
1994	Search Committee, Associate Director Medical/Health Administration, College of Pharmacy.
1995	Search Committee, Associate Dean for Clinical Affairs and Chair of Pharmacy Practice.
2001-2002	Chair, faculty search committee for branch campus directors.
2003	Chair, Faculty Search committee for New Pharmacodynamics faculty (3 positions)
2004	Search Committee for Assistant Distance Site Directors

Graduate Supervisory Committee Member

<u>Name</u>	<u>Degree</u>	<u>Year Graduated</u>	
Kelly Marks	MS	1987	
Cathy Smith	Ph.D.	1988	
Alpna Seth	MS	1988	
David Wallace	Ph.D.	1991	
Nwando Nwanna	Pharm D	1998	Committee Char
Shridhar Iyer	Ph.D.	1995	
Eun-Kyung Lee	Ph.D.	1997	
Baerbel Eppler	Ph.D.	1998	
Darren Roesch	Ph.D.	1998	
Lynette Taylor	Ph.D.	1999	
Ming Hu	Ph.D.	1999	
Bruce Jung	Ph.D.	2000	
Jian Wang	Ph.D.	2001	Co-Committee Chair
Feng Li	Ph.D.	2002	
Zuan Yan	M.S.	2002	
Xiaofei Wang	Ph.D.	2003	Co-Committee Chair
Evelyn Perez	Ph.D.	2004	Co-Committee Chair
Anthony Smith	Ph.D.	2005	
Zhimin Li	Ph.D.	2008	
Haoyu Mao	PhD	2008	