CURRICULUM VITAE

NAME: **Javier Cuevas, Ph.D.**
TITLE: Professor
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EDUCATION:

1990	A.B.	Biology-Psychology	Dartmouth College, Hanover, NH
1995	Ph.D.	Molecular and Cellular Pharmacology	University of Miami School of Medicine, Miami, FL
1995		Post-doctoral training	University of Miami, Molecular and Cellular Pharmacology (C. Luetje)
1995-1996		Post-doctoral training	University of Queensland, Australia Dept. of Physiology (D. Adams)
1996-1998		Post-doctoral training	University of California, San Diego, Department of Biology, (D. Berg)

ACADEMIC APPOINTMENTS:

1999-2005	Assistant Professor, Department of Pharmacology and Therapeutics, University of South Florida College of Medicine, Tampa, FL.
2005-2006	Associate Professor, Department of Pharmacology and Therapeutics, University of South Florida College of Medicine, Tampa, FL.
2006-2012	Associate Professor, Department of Molecular Pharmacology and Physiology, University of South Florida College of Medicine, Tampa, FL.
2010	Interim Chair, Department of Pharmaceutical Sciences, University of South Florida College of Medicine, Tampa, FL.
2011-2012	Associate Professor, Department of Pharmaceutical Sciences, University of South Florida College of Pharmacy, Tampa, FL.
2012-present	Professor, Department of Molecular Pharmacology and Physiology, University of South Florida College of Medicine, Tampa, FL.
2012-present	Professor, Department of Pharmaceutical Sciences, University of South Florida College of Pharmacy, Tampa, FL.

ADMINISTRATIVE APPOINTMENTS:

2000-2003	Director of Graduate Studies Program, Department of Pharmacology and Therapeutics, University of South Florida College of Medicine
2002-2003	Chairman, Multidisciplinary Biomedical Sciences Admissions and Recruitment Committee, University of South Florida College of Medicine

2005-present	Diversity and Equal Opportunity Office, University of South Florida Health Science Center Liaison
2006-2010	Department of Molecular Pharmacology and Physiology Executive Committee, University of South Florida College of Medicine, Tampa, FL.
2006-present	Neuroscience Signature Program Executive Committee, University of South Florida College of Medicine
2012-2013	Vice President, University of South Florida College of Medicine Faculty Council
2013-present	President, University of South Florida College of Medicine Faculty Council

HONORS AND AWARDS:

1990-1991	Predoctoral Fellowship Award, Lucille P. Markey Trust, Miami, FL.
1990-1995	Predoctoral Fellowship, NIH T32-HL07188, Bethesda, MA.
1991-1994	Florida Predoctoral Scientist Award, Florida Dept. of Education, Tallahassee, FL.
1996-1997	Ruth L. Kirschstein National Research Service Award, Postdoctoral Fellowship, NIH, Bethesda, MA
1997-1999	Chancellor's Fellowship, University of California, San Diego, CA
2004	Outstanding Mentor, University of South Florida McNair Scholars Program
2006	Biotechnology Excellence Award, University of South Florida College of Medicine, Tampa, FL.
2008-2010	University of South Florida Leadership Institute
2008-2009	Dean's Academic Performance Award, Recognition for outstanding contribution to the Mission of the College of Medicine, University of South Florida College of Medicine, Tampa, FL.
2014	Patel International Scholar Award

RESEARCH:

GRANT PROPOSALS FUNDED:

1999	"Cell-Cell Signaling in the Cardiac Ganglia: A Novel Nicotinic Receptor." *Principal Investigator*, American Heart Association Scientist Development Grant (9930259N; $260,000).
1999-2003	"Nicotinic Receptors in Mammalian Intracardiac Neurons." *Principal Investigator*, NIH RO1 Grant (1RO1HL63247; $330,000)
2001-2004	"Cocaine Can Cause Cardiomyocyte Hypertrophy." Collaborator; VA/CARD (TAB 31, $300,000); Henning, PI.
2001-2003	"Nicotine-Induced Phosphorylation of $\alpha 4\beta 2$ Neuronal Nicotinic Receptors." Co-Investigator; State of Florida Biomedical Research Program, ($400,000); Wecker, PI
2002-2007	"Regulation of Neuronal Nicotinic Receptors." Co-Investigator; NIH RO1 (1R01 DA14010; $1,250,000); Wecker, PI
2003	"Sigma receptor-mediated neuroprotection during ischemia." *Principal Investigator*, University of South Florida College of Medicine ($20,000)
2004-2006	"Sigma receptor-mediated neuroprotection during ischemia." *Principal Investigator*, American Heart Association Grant-In-Aid, Florida/Puerto Rico

Affiliate (0455210B, $120,000)

2007 "Sigma receptor-mediated neuroprotection during ischemia." *Principal Investigator*, Signature Interdisciplinary Program in Neuroscience Grant ($8,000)

2007-2011 "Regulation of intracardiac neuron excitability by store-operated calcium channels." *Principal Investigator*, American Heart Association Grant-In-Aid, Greater Southeastern Affiliate (0655291B; $264,000).

2008-2009 "Use of pioglitazone for treating stroke at delayed time points." Co-Principal Investigator; Takeda Pharmaceuticals, ($144, 000 for 1.5 years); Keith Pennypacker, PI.

2008-2009 "Synthesis and screening of sigma receptor ligands for stroke therapy at delayed time points." *Principal Investigator*, Florida Center of Excellence-Biomolecular Identification and Targeted Therapeutics, ($75,000).

2008-2009 "Expanding the therapeutic window of stroke." Co-Principal Investigator; NIH, NINDS, R21 ($259,000 direct costs for two years), Keith Pennypacker, PI.

2009-2011 "Synthesis and screening of sigma receptor ligands for stroke therapy at delayed time points." *Co-Principal Investigator, PI Project 2*. King Biomedical Research Program, State of Florida, ($764,174, total costs for two years; Project 2: $156,965, total cost for two years).

2009-2011 "Effects of Afobasol on Calcium Handling in Neurons During Ischemia" *Principal Investigator,* RF Pharmaceuticals Sarl, ($44,825, total costs for one year).

2009-2011 "Effects of Afobasol on Calcium Handling in Neurons and Microglia" *Principal Investigator,* MDR Pharmaceutical Limited, ($85,298, total costs for one year).

2010-2012 "Role of Calcium in Mediating c-HYD1 and HYD1 Induced Cell Death in Multiple Myeloma" *Collaborator*, Multiple Myeloma Research Foundation, ($200,000, total costs for two years; $13,982 sub award), Lori Hazlehurst, PI.

2011-2012 "Neuroprotective properties of Afobasol modeled *in vitro" Principal Investigator,* MDR Pharmaceutical Limited, ($93,767, total costs for one year).

2011-2013 "Effects of Afobasol in Rat Model of Ischemic Stroke" *Principal Investigator,* MDR Pharmaceutical Limited, ($425,983.72, total costs for two years).

2011-2014 "Molecular mechanisms of sigma receptor-mediated cytoprotection." *Principal Investigator*, American Heart Association Grant-In-Aid, Greater Southeastern Affiliate (11GRNT7990120; $165,000).

2013-2015 "Chip based neurovascular model for neuroprosthetics." *Co-investigator,* NIH NINDS, ($17,984 sub award), Shivshankar Sundaram, PI.

PUBLICATIONS:

Refereed journal articles:

1. Cameron, J.S., Gaide, M.S., Goad, P.L, Altman, C.B., **Cuevas, J.**, Myerburg, R.J. and Bassett, A.L. (1985). Enhanced adverse electrophysiologic effects of histamine after myocardial infarction in guinea pigs. *J. Pharmacol. Exp. Therap.* 232: 480-484.
2. Kimura, S., Bassett, A.L., Furukawa, T., **Cuevas, J.**, and Myerburg, R.J. (1990). Electrophysiological properties and responses to simulated ischemia in cat ventricular myocytes of endocardial and epicardial origin. *Circ. Res.* 66: 469-477.
3. **Cuevas, J.**, Bassett, A.L., Cameron, J.S., Furukawa, T., Myerburg, R.J., and Kimura, S. (1991). Effects of acidosis on ATP-regulated K^+ channels in normal and hypertrophied myocytes. *Am. J. Physiol.* 260: H755-H761.

4. **Cuevas, J.** and Adams, D.J. (1994). Local anesthetic blockade of neuronal nicotinic ACh receptor- channels in rat parasympathetic ganglion cells. *Br. J. Pharmacol.* 111: 663-672.
5. **Cuevas, J.** and Adams, D.J. (1996) Vasoactive intestinal polypeptide modulation of nicotinic ACh receptor-channels in rat parasympathetic cardiac neurones. *J. Physiol*. 493: 503-515.
6. Poth, K. , Nutter, T.J., **Cuevas, J.**, Parker, M.J., Adams, D.J., Luetje, C.W. (1997). Multiple neuronal nicotinic receptor α and β subunit mRNA expression in individual intracardiac parasympathetic neurons is revealed by single cell RT-PCR. *J. Neurosci.* 17: 586-596.
7. **Cuevas, J.**, Harper, A. A., Trequattrini, C., and Adams, D. J. (1997). Passive and active membrane properties of isolated rat intracardiac neurons: regulation by H- and M-currents. *J. Neurophysiol.* 78: 1890-1902.
8. **Cuevas, J.** and Adams, D.J. (1997). M_4 muscarinic receptor activation modulates calcium channel currents in rat parasympathetic cardiac neurones. *J. Neurophysiol* . 78: 1903-1912.
9. Loughnan, M., Bond, T., Atkins, A., Jones, A, Gehrmann, J., **Cuevas, J.**, Adams, D.J., Broxton, N., Livett, B., Down, J., Alewood, P.F., and Lewis, R.J. (1998). α-conotoxin EpI: a novel sulfated peptide from Conus episcopatus which selectively targets neuronal nicotinic acetylcholine receptors. *J. Biol. Chem.* 273: 15667-15674.
10. **Cuevas, J.** and Berg, D.K. (1998). Mammalian nicotinic receptors with α7 subunits that slowly desensitize and rapidly recover from α-bungarotoxin blockade. *J. Neurosci.* 18: 10335-10344
11. **Cuevas, J.**, Roth, A. and Berg, D.K. (2000). Two distinct classes of functional α7-containing nicotinic receptors on rat superior cervical ganglion neurons. *J. Physiol.*, 525: 735-746
12. Liu, D-M., **Cuevas, J.**, and Adams, D.J. (2000) VIP and PACAP potentiation of nicotinic ACh-evoked currents in rat parasympathetic neurons is mediated by G-protein activation. *E. J. Neurosci.* 12: 2243-2251.
13. **Cuevas, J.** and Adams, D.J. (2000). Substance P preferentially inhibits large conductance nicotinic ACh receptor channels in rat intracardiac ganglion neurons. *J. Neurophysiol.* 84: 1961-1970.
14. Zhang, H. and **Cuevas, J.** (2002). Sigma receptors inhibit high-voltage-activated calcium channels in rat sympathetic and parasympathetic neurons. *J. Neurophysiol.* 87: 2867-2879.
15. Dehaven, W.I. and **Cuevas, J.** (2002).Heterogeneity of PACAP and VIP receptors in rat intrinsic cardiac neurons. *Neurosci. Let.* 328: 45-49
16. Severance, E.G. Zhang, H., Cruz, Y., Pakhlevaniants, S., Amin, J., Hadley, S.H., Wecker, L., Reed, C. and **Cuevas, J.** (2004). The α7 nicotinic acetylcholine receptor subunit exists in two isoforms that contribute to functional ligand-gated ion channels. *Mol. Pharm.* 66: 420-429
17. Herber, D.L., Severance, E.G., **Cuevas, J.**, Morgan, D., and Gordon, M.N. (2004). Nonspecific binding of α7nAChR antibodies in murine models of Alzheimer's disease and neuroinflammation. *J Histochem. and Cytochem.* 52: 1367-1376.
18. Dehaven, W.I. and **Cuevas, J.** (2004). VPAC receptor modulation of neuroexcitability in intracardiac neurons: dependence on intracellular calcium mobilization and synergistic enhancement by PAC_1 receptor activation. *J. Biol. Chem.* 279: 40609-40621
19. Sawmiller D.R., Henning R., **Cuevas, J.**, DeHaven W.I., and Vesely, D. (2004). Coronary

vascular effects of vasoactive intestinal peptide in the isolated perfused rat heart *Neuropeptides* 38: 289-297.

20. Severance, E.G. and **Cuevas, J.** (2004). Distribution and synaptic localization of nicotinic acetylcholine receptors encoding a novel $\alpha 7$ subunit isoform in embryonic rat cortical neurons. *Neurosci Let* 372: 104-109.
21. Zhang, H. and **Cuevas, J.** (2005). Sigma receptor activation blocks potassium channels and depresses neuroexcitability in rat intracardiac neurons. *J. Pharmacol. Exp. Ther.* 313:1387-1396.
22. Ajmo, C.T., Vernon, D.O., Collier, L., Pennypacker, K.R., **Cuevas, J.** (2006). Sigma receptor activation reduces infarct size at 24 hours after permanent middle cerebral artery occlusion in rats. *Current Neurovasc. Res.* 3:89-98
23. Henning, R.J. and **Cuevas, J.** (2006) Cocaine activates calcium/calmodulin kinase II and causes cardiomyocyte hypertrophy. *J. Cardiovasc. Pharm.* 48: 802-813.
24. Katnik, C., Guerrero, W.R., Pennypacker, K.R., Herrera, Y., and **Cuevas, J**. (2006). Sigma receptor activation prevents intracellular calcium dysregulation in cortical neurons during in vitro ischemia. *J. Pharmacol. Exp. Ther.* 31:1355-1365.
25. McCord, A.M., **Cuevas, J.**, and Anderson, B. (2007). Bartonella-induced endothelial cell proliferation is mediated by release of calcium from intracellular stores. *DNA and Cell Biol.* 26:657-663.
26. Song, S., Song, S., Zhang, H., **Cuevas, J.**, and Sanchez-Ramos, J. (2007). Comparison of neurons derived from bone marrow stem cells to those differentiated from adult brain neural stem cells. *Stem Cells and Development* 16:747-756.
27. Herrera, Y., Katnik, C., Rodriguez, J.D., Hall, A.A., Willing, A., Pennypacker, K.R., and **Cuevas, J.** (2008). Sigma-1 receptor modulation of ASIC1a channels and ASIC1a-induced Ca^{2+} influx in rat cortical neurons. *J. Pharmacol. Exp. Ther.* 327:491-502.
28. Pollock, V.V., Pastoor, T., Katnik, C., **Cuevas, J.** and Wecker, L. (2009). Cyclic AMP-dependent protein kinase A and protein kinase C phosphorylate $\alpha 4\beta 2$ nicotinic receptor subunits at distinct stages of receptor formation and maturation. *Neuroscience* 158:1311-1325.
29. Hall, A.A., Herrera, Y., Ajmo C.T., **Cuevas, J.***, Pennypacker K.R. (2009). Sigma receptors suppress multiple aspects of microglial activation. *Glia* 57:744-754. ***corresponding author**
30. Ajmo, T.C., Collier, L.A., Leonardo, C.C., Hall, A.A., Green, S.M., **Cuevas, J.**, Willing, A.E., Pennypacker, K.R. (2009). Blockade of adrenoreceptors inhibits the splenic response to stroke. *Exp. Neuro.* 218:47-55.
31. Zhang, H., Katnik, C. and **Cuevas, J.** (2009). Sigma Receptor Activation Inhibits Voltage-Gated Sodium Channels in Rat Intracardiac Ganglion Neurons. *IJPPP.* 2:1-11
32. Cortes-Salva, M.Y., Nguyen, B-L, **Cuevas, J.**, Pennypacker, K.R., and Antilla, J.C. (2010) Copper-Catalyzed Cross Guanidinylation of Aryl Iodides: The Formation of N,N'-Disubstituted Guanidines. *Organic Letters* 12:1316-1319.
33. Mari, Y., Katnik, C., and **Cuevas, J.** (2010). ASIC1a channels are activated by endogenous protons during ischemia and contribute to synergistic potentiation of intracellular calcium overload during ischemia and acidosis. *Cell Calcium* 48:70-82.
34. Yanamandra, N., Buzzeo, R.W., Gabriel, M., Mari, Y., Beaupre, D.M., **Cuevas, J.** (2011). Tipifarnib-induced apoptosis in acute myeloid leukemia cells is dependent on Ca^{2+} influx through plasma membrane Ca^{2+} channels. *J. Pharmacol. Exp. Ther.* 337:636-643.
35. **Cuevas, J.**, Behensky, A. and Katnik, C. (2011). Afobazole modulates neuronal response to ischemia and acidosis via activation of sigma-1 receptors. *J. Pharmacol. Exp. Ther.*

339:152-160.
36. **Cuevas, J.**, Rodriguez, A., Behensky, A. and Katnik, C. (2011). Afobazole modulates microglial function via activation of both sigma-1 and sigma-2 receptors. *J. Pharmacol. Exp. Ther.* 339:161-172.
37. Achyuta, A.K.H., Conway, A.J., Crouse, R.B., Bannister, E.C., Lee, R.N., Katnik, C.P., Behensky, A.A., **Cuevas, J.** and Sundarama, S.S. (2013). A modular approach to create a neurovascular unit-on-a-chip. *Lab on a Chip*. 13:542-553
38. Behensky A.A., Cortes-Salva M., Seminerio M.J., Matsumoto R.R., Antilla J.C., **Cuevas J.** (2013). In vitro evaluation of guanidine analogs as sigma receptor ligands for potential anti-stroke therapeutics. *J. Pharmacol. Exp. Ther.* 344:155-166.
39. Panguluri, S.K.,Tur, J.,Chapalamadugu, K.C., Katnik, C., **Cuevas, J.**, Tipparaju, S.M. (2013). MicroRNA-301a mediated regulation of Kv4.2 in diabetes: identification of key modulators. PLoS One 8:e60545.
40. Behensky A.A., Yasny, I.E., Shuster, A.M., Seredenin, S.B., Petrov, A.V., **Cuevas J.** (2013). Stimulation of sigma receptors with afobazole blocks activation of microglia and reduces toxicity caused by amyloid-β_{25-35}. *J. Pharmacol. Exp. Ther.* 347:458-467.
41. Behensky A.A., Yasny, I.E., Shuster, A.M., Seredenin, S.B., Petrov, A.V., **Cuevas J.** (2013). Afobazole activation of sigma-1 receptors modulates neuronal responses to amyloid-β_{25-35}. *J. Pharmacol. Exp. Ther.* 347:468-477.
42. Katnik, C., Dimas, A., Behensky, A. A., Yasny, I.E., Shuster, A. M., Seredenin, S. B., Petrov, A. V., Seifu, S., McAleer, Willing, J., A., **Cuevas, J.** (2014). Treatment with afobazole at delayed time points following ischemic stroke improves long-term functional and histological outcomes. *Neurobiol. Dis.*62:354-364.
43. **Cuevas J.** (2014). Molecular mechanisms of dysautonomia during heart failure. *Am. J. Physiol. Cell Physiol.* (In press).
44. Katnik, C. and **Cuevas J.** (2014). Non-specific Inhibition of Ischemia- and Acidosis-Induced Intracellular Calcium Elevations and Membrane Currents by Antioxidants. Int J Mol Sci. (In press)

Refereed review articles in web based publications:

1. **Cuevas, J.** (2004). Neurotransmitters and their life cycle. In: xPharm, Principles, eds. D. B. Bylund and S.J. Enna. Elsevier Science, Inc., http://www.xpharm.com/citation?Article_ID=51
2. **Cuevas, J.** (2004). Electrophysiological recording techniques. In: xPharm, Principles, eds. D. B. Bylund and S.J. Enna. Elsevier Science, Inc., http://www.xpharm.com/citation?Article_ID=47
3. **Cuevas, J.** (2004). The resting membrane potential. In: xPharm, Principles, eds. D. B. Bylund and S.J. Enna. Elsevier Science, Inc., http://www.xpharm.com/citation?Article_ID=48
4. **Cuevas, J.** (2004). Structure and function of membranes. In: xPharm, Principles, eds. D. B. Bylund and S.J. Enna. Elsevier Science, Inc., http://www.xpharm.com/citation?Article_ID=90
5. **Cuevas, J.** (2004). The somatic nervous system. In: xPharm, Principles, eds. D. B. Bylund and S.J. Enna. Elsevier Science, Inc., http://www.xpharm.com/citation?Article_ID=424

6. **Cuevas, J.** (2004). The action potential. In: xPharm, Principles, eds. D. B. Bylund and S.J. Enna. Elsevier Science, Inc., http://www.xpharm.com/citation?Article_ID=49
7. **Cuevas, J.** (2004). The peripheral nervous system. In: xPharm, Principles, eds. D. B. Bylund and S.J. Enna. Elsevier Science, Inc., http://www.xpharm.com/citation?Article_ID=422
8. **Cuevas, J.** and Wecker, L. (2004) The autonomic nervous system; xPHARM (D.B. Bylund and S.J. Enna, Eds.), Elsevier Science, Inc., http://www.xpharm.com/citation?Article_ID=423

Dissertation:

Cuevas, J. (1995). Cholinergic and peptidergic modulation of neuronal excitability in rat intracardiac ganglia. University of Miami, Miami, FL.

Book chapters and other publications:

1. Berg, D.K., Shoop, R.D., Chang, K.T., and **Cuevas, J.** (2000). Nicotinic acetylcholine receptors in ganglionic transmission. In: Handbook of Experimental Pharmacology: Neuronal Nicotinic Receptors; eds. Clementi, F., Gotti, C., and Fornasari, D. (Springer-Verlag), Vol. 144, pp. 247-267.
2. Adams, D.J. and **Cuevas, J.** (2004). Electrophysiological properties of cardiac neurons-the foundation of neurocardiology. In: Basic and Clinical Neurocardiology; eds. J.A. Armour and J.L. Ardell; Oxford University Press, pp. 1-60.
3. Willing, E.A., **Cuevas, J.**, and Pennypacker, K.R. (2007). Treatment of Alzheimer Disease: New Insights from Treatment of Stroke at Delayed Time Points. In: Ischemia-Reperfusion Pathways in Alzheimer's Disease; eds. R. Pluta, Nova Science Publishers

Abstracts:

1. Cameron, J.S., Gaide,M.S., Altman, C.B., **Cuevas, J.**, Myerburg, R.J. and Bassett, A.L. (1983). Cellular electrophysiologic effects of histamine following myocardial infarction in the guinea pig. *The Physiologist* 26: A-100.
2. Cameron, J.S., Miller, L.S., Kaiser, C.J., Markovich, G.D., **Cuevas, J.**, Myerburg, R.J. and Bassett, A.L. (1984). Verapamil reduces regional electrophysiologic differences accompanying hypertension and myocardial hypertrophy. *Abstracts, IUPHAR 9th Internat. Congress Pharmacol.* p433.
3. Furukawa, T., Kimura, S., **Cuevas, J.**, Bassett, A.L. and Myerburg, R.J. (1989). ATP-modulated potassium channels in epicardium and endocardium have different sensitivity to ATP. *Circulation* 80 (II): 519.
4. **Cuevas, J.**, Kimura, S., Cameron, J.S., Furukawa, T., Myerburg, R.J., and Bassett A.L. (1990). Acidosis influences ATP-regulated K^+ channels in normal and hypertrophied left ventricular myocytes. *J. Am. Coll. Cardiol.* 15: 145.
5. Nutter, T.J., **Cuevas, J.** and Adams, D.J. (1991). Local anesthetic and proton block of ACh-evoked currents in rat parasympathetic neurons. *Soc. Neurosci. Abst.* 17 (2): 1332 (534.7).
6. **Cuevas, J.**, Harper, A.A., and Adams, D.J. (1993). Membrane properties and discharge characteristics of rat intracardiac neurons *in vitro*: the effects of temperature. *J. Physiol.* 467, 356P.
7. **Cuevas, J.** and Adams, D.J. (1993). VIP modulation of nicotinic ACh receptor-channels in

rat intracardiac neurones is mediated by a pertussis toxin-sensitive G-protein. XXXII IUPS Congress, Glasgow, U.K. Abst. 253.7.

8. **Cuevas, J.** and Adams, D.J. (1994). Differential modulation of neuronal nicotinic ACh receptor-channels by neuropeptides. *Soc. Neurosci. Abst.*20 (2): 1137 (467.18).
9. **Cuevas, J.** and Adams, D.J. (1995). M_4 muscarinic receptor activation modulates voltage-dependent calcium conductances in rat intracardiac neurones. *J. Physiol.* 487.P (122P).
10. Harper, A.A., **Cuevas, J.**, and Adams, D.J. (1995). Discharge characteristics of neonatal rat intracardiac neurons *in vitro*: the effect of potassium channel blockers. *J. Physiol.* 487.P (122-123).
11. Poth, K., **Cuevas, J.**, Nutter, T.J., Adams, D.J., Luetje, C.W. (1995). Differential expression of neuronal nicotinic receptor subunit mRNAs among individual intracardiac parasympathetic neurons is revealed by single cell RT-PCR. *Soc. Neurosci. Abst.* 21 (2): 1335 (527.17).
12. **Cuevas, J.** and Adams, D.J. (1995). Muscarinic receptor-mediated currents in rat intracardiac neurones. *Proc.Aust. Phys. Pharmacol. Soc*. 26 (2): 259P.
13. **Cuevas, J.** and Adams, D.J. (1995). Muscarine-sensitive K^+ currents in rat parasympathetic neurones: a comparison of dialyzed and perforated patch. Ion Channel Workshop. Sydney, NSW, Australia.
14. Adams, D.J., **Cuevas, J.** and Liu, D. (1997). VIP potentiates nicotinic currents in parasymapthetic neurones from neonatal and adult rat intracardiac and submandibular ganglia. *Proc. Aust. Neurosci. Soc.* 8, 37.
15. **Cuevas, J.** and Adams, D.J. (1997). Substance P preferentially inhibits the large conductance class of neuronal nicotinic ACh receptor-channels expressed in parasympathetic neurones of rat intracardiac neurons. *J. Physiol.* 501P, 501-502.
16. **Cuevas, J.**, Conroy, W.G. and Berg, D.K. (1997). Long-lasting ACh-induced currents blocked by α-bungarotoxin in rat intracardiac neurons. *Soc. Neurosci. Abst.* 23 (1): 667 (265.13).
17. **Cuevas, J.** and Berg D.K. (1998). Functional blockade of neuronal AChRs by intracellular dialysis with monoclonal antibodies: identification of α7-containing receptor subtypes. *Soc. Neurosci. Abst.* 24 (2): 834 (331.23).
18. Ferraro, B., Chandrahasa, S., and **Cuevas, J.** (2000) Expression of multiple isoforms of the pituitary adenylate cyclase-activating polypeptide receptor, PAC1, in single neurons of rat intracardiac ganglia. *Soc. Neurosci. Abst.* 26:530.16.
19. Hallquist N, Cuevas J, Friedman H, Pross S Nicotinic receptors located to immune cells. *FASEB J.* 15: A567
20. Zhang, H.L. and **Cuevas, J.** (2001). Sigma receptor modulate electrical properties of autonomic neurons. *FASEB J.* 15: 202.21.
21. Dehaven, W.I. and **Cuevas, J.** (2001). Expression of multiple isoforms of the pituitary adenylate cyclase-activating polypeptide receptor, pac1, in single neurons of rat intracardiac ganglia. *FASEB J.* 15: 209.11.
22. Severance, E.G. and **Cuevas, J.** (2001). Identification of a novel exon in the mammalian α7 nicotinic acetylcholine receptor subunit gene. *Soc. Neurosci. Abst.* 144.4.
23. Zhang, H. and **Cuevas, J.** (2001). Sigma receptors inhibit high-voltage-activated calcium channels in rat sympathetic and parasympathetic neurons. *Soc. Neurosci. Abst.* 271.18.
24. Sawmiller R.D., DeHaven W.I., **Cuevas, J.**, Henning R., Vesely, D. (2002). Coronary vascular effects of vasoactive intestinal peptide in the isolated perfused rat heart. *FASEB J.* 16: 443.12.
25. De Haven, W.I. and **Cuevas, J.** (2002). PACAP modulates neuroexcitability in rat

intracardiac neurons. *Soc. Neurosci. Abst.* 42.10.

26. Severance, E.G., Amin, J.A., Hadley, S.H. and **Cuevas, J.** (2002). Tissue distribution and functional expression of the mammalian α7-2 nicotinic acetylcholine receptor subunit isoform. *Soc. Neurosci. Abst.* 617.3.
27. Zhang, H. and **Cuevas, J.** (2002). Effects of sigma receptors on neuroexcitability in rat intracardiac neurons. *Soc. Neurosci. Abst.* 831.13.
28. McCleary, D., Gordon, M., Dickey, C., Severance, E., Morgan, D. and **Cuevas, J.** (2002). Distribution of a novel isoform of the α7 nicotinic receptor subunit in APP-PS1 transgenic mice. *Soc. Neurosci. Abst.* 884.16.
29. De Haven, W.I. and **Cuevas, J.** (2003). Pituitary adenylate cyclase-activating polypeptide (PACAP) increases cytosolic free calcium concentration in rat intrinsic cardiac neurons. *Soc. Neurosci. Abst.* 470.14.
30. Severance, E.G., and **Cuevas, J.** (2003). The α7-2 nicotinic acetylcholine receptor subunit isoform is targeted to synaptic sites in central and peripheral neurons. *Soc. Neurosci. Abst.* 682.1.
31. Zhang, H. and **Cuevas, J.** (2003). Sigma receptors activation depresses delayed outwardly rectifying K^+ channels in rat intracardiac neurons. *Soc. Neurosci. Abst.* 923.17.
32. Rogers, C.Q., **Cuevas, J.**, Pollock, V.V., and Wecker, L. (2004). Agonist responses of human $\alpha4\beta2$ neuronal nicotinic receptors are altered following deletion of specific phosphorylation sites on the α4 subunit. *Soc. Neurosci. Abst.* 275.17.
33. Zhang, H., Guerrero, W., DeMesquita, D., Pennypacker, K., **Cuevas, J.** (2004) Sigma-1 receptor activation attenuates elevations in intracellular calcium evoked by chemical ischemia. *Soc. Neurosci. Abst.* 1019.1.
34. De Haven, W.I. and **Cuevas, J.** (2004). PACAP-induced increases in $[Ca^{2+}]_i$ are mediated by activation of VPAC2 receptors and involve cADP ribose. *Soc. Neurosci. Abst.* 964.5.
35. Henning, R., Ivancsits, D., and **Cuevas, J.** (2004). Cocaine activates calcium/calmodulin kinase II and causes cardiac ventricular hypertrophy and arrhythmias. *AHA Abstracts*. 2805.
36. Song S, **Cuevas. J.**, and Sanchez-Ramos J. (2004). Transdifferentiation of bone marrow stromal cells into neuron-like cells. *Experimental Neurology* 187: 227.
37. Ajmo, C.T., De Mesquita, D., **Cuevas, J.**, Pennypacker, K.R. (2005). Sigma receptor activation reduces infarct size after permanent middle cerebral artery occlusion in rats. *Soc. Neurosci. Abst.* 356.7.
38. Ajmo, C.T., Vernon, D.O.L., Collier, L.A., Newcomb, L.A., **Cuevas, J.**, Willing, A., Pennypacker, K.R. (2006) The spleen, a novel target of cerebral embolic stroke, contributes to the neurodegeneration occurring within the infarction. *Soc. Neurosci. Abst.* 613.3.
39. Herrera, Y., Katnik, C., Pennypacker, K.R., **Cuevas, J.** (2006). Sigma receptor activation inhibits acid-sensing ion channels in rat cortical neurons. *Soc. Neurosci. Abst.* 625.13.
40. Hall, A.A., Cruz, Y., Katnik, C., **Cuevas, J.**, Pennypacker, K.R. (2006). The sigma receptor agonist 1, 3-di-o-tolylguanidine suppresses the intracellular calcium signaling necessary for the activation of microglia. *Soc. Neurosci. Abst.* 711.5.
41. Hall, A.A., Herrera, Y., **Cuevas, J.**, Pennypacker, K.R. (2007). Sigma receptor mediated suppression of microglial activation is a calcium dependent process. *Soc. Neurosci. Abst.* 551.3.
42. Herrera, Y., Katnik, C., Hall, A.A., Pennypacker, K.R., **Cuevas, J.** (2007). Modulation of acid-sensing ion channels by sigma receptors. *Soc. Neurosci. Abst.* 468.10.

43. Ajmo, T.C., Collier, L.A., **Cuevas, J.**, Willing, A.E., Pennypacker, K.R. (2007). Splenic response to stroke is not dependent on autonomic neurotransmission. *Soc. Neurosci. Abst.* 551.7.
44. Leonardo, C.C., Ajmo, T.C., Collier, L.A., Green, S.M., **Cuevas, J.**, Willing, A.E., Pennypacker, K.R. (2008). Delayed Administration of a Pan-Selective Sigma Receptor Agonist after MCAO: Effects on Neural Injury and Behavioral Recovery. *Stroke.* 40, e133, 108.
45. Hall, A.A., Leonardo, C.C., **Cuevas, J.**, Willing, A.E., Pennypacker, K.R. (2008). Human Umbilical Cord Blood treatment inhibits nitric oxide production and subsequent neuronal cell death in organotypic slice cultures subjected to oxygen glucose deprivation. *Stroke.* 40, e170, P76.
46. D'Agostino, D.P., Olson, J.E., **Cuevas, J.** and Dean J.B. (2009). Analysis of oxidative stress in CNS cells by integration of Atomic Force Microscopy (AFM), fluorescence microscopy and amperometry. F*ASEB J.* 23: 617.3.
47. Cortes-Salva, M.Y, Antilla, J.C., Behensky, A, **Cuevas, J.**, and Pennypacker, K. (2009). Design, synthesis and evaluation of guanidine analogs as potential drugs for stroke therapeutics. *Amer. Chem. Soc. Abst.* ORGN 227.
48. Herrera, Y., Katnik, C., and **Cuevas, J.** (2009). σ-1 receptor activation inhibits ASIC1a channels via a pertussis toxin sensitive G protein and an AKAP150/calcineurin complex. *Soc. Neurosci. Abst.* 496.8.
49. Katnik, C., Bonds, T., DeHaven, I., **Cuevas, J.**, (2009). I_{CRAC}-like store operated calcium entry in rat intracardiac neurons. *Soc. Neurosci. Abst.* 818.10.
50. Cortes-Salva, M.Y., Behensky, A., Pennypacker, K., **Cuevas, J.**, and Antilla, J.C. (2009) Synthesis and screening of sigma receptor ligands for post-stroke therapy. *Amer. Chem. Soc. Abst.*, ORGN 485.
51. Bonds, T. and **Cuevas, J.** (2011). Regulation of Store Operated Calcium Channels by μ-opioid Receptor Activation in Mammalian Intracardiac Neurons. *FASEB J.* 25:645.12
52. Shahaduzzaman, M., McAleer, J., Grieco, J., Golden, J., Glover, J., Hall, J., Cortes-Salva, M., Antilla, J., Cuevas, J, Pennypacker K. R. and Willing, A.E. (2012). Sigma Receptor (σRs) Agonist NAPH Decreased Long-term Infarct Volume and Rescued White Matter After Middle Cerebral Artery Occlusion (MCAO). *Cell Transplantation* 21:790
53. **Cuevas, J.**, Behensky, A., Yasny, I and Katnik, C. (2012). Afobazole as an effective agent for both stroke prophylaxis and post-stroke treatment at delayed time points. *Cerebrovascular Diseases* 33(2):726.
54. Behensky, A. A., Katnik, C., Dimas, A., Yasny, I.E., Shuster, A. M., Seredenin, S. B., Petrov, A. V., Seifu, and **Cuevas, J.** (2014). Katnik, C., Dimas, A., Behensky, A. A., Yasny, I.E., Shuster, A. M., Seredenin, S. B., Petrov, A. V., Seifu, S., McAleer, Willing, J., A., Cuevas, J. (2014). Afobazole treatment at delayed time points decreases astrocyte and microglia activation and death caused by MCAO in rats. *Cerebrovascular Diseases* (In press).
55. Behensky, A. A., and **Cuevas, J.** (2014). Sigma receptors mitigate Aβ-potentiated calcium dysfunction during ischemia. F*ASEB J.* (In press).

SCIENTIFIC PRESENTATIONS AT NATIONAL AND INTERNATIONAL MEETINGS:

American College of Cardiology meeting, New Orleans, LA., March, 1990
Society for Neuroscience meeting, New Orleans, LA., Nov., 1991
XXXII International Conference of Physiological Sciences (IUPS), Glasgow U.K., Aug., 1993,

Invited Platform Presentation
Society for Neuroscience meeting, Miami, FL., Nov., 1994
Keynote Speaker at HEFEMA First International Pharm. Congress, Miami, FL., June 1995
Australian Physiological Society meeting, Sydney, NSW, Australia, Oct., 1995
Ion Channel Workshop, Sydney, NSW, Australia, Oct., 1995
Society for Neuroscience meeting, New Orleans, LA, Oct., 1997
Tobacco Related Disease Research Program meeting, San Francisco, CA, Nov., 1997
Neurocardiology Research Conference, Johnson City, TN, Oct, 1998, **Invited Platform Presentation**
Society for Neuroscience Meeting, Los Angeles, CA, Nov., 1998
Society for Neuroscience Meeting, New Orleans, LA, Nov., 2000
Experimental Biology Meeting, Orlando, FL, March, 2001
Society for Neuroscience Meeting, San Diego, CA, Nov., 2001
Society for Neuroscience Meeting, Orlando, FL, Nov., 2002, **Invited Platform Presentation**
Society for Neuroscience Meeting, New Orleans, LA, Nov., 2003
Society for Neuroscience Meeting, San Diego, CA, Oct., 2004
Society for Neuroscience Meeting, Atlanta, GA, Oct., 2006
Society for Neuroscience Meeting, San Diego, CA, Nov., 2007
Society for Neuroscience Meeting, Chicago, IL, Oct., 2009, **Invited Nanosymposium Presentation**
Experimental Biology Meeting, Washington D.C., March, 2011
European Stroke Conference, Lisbon, Portugal, May 2012

INVITED SPEAKER, SEMINARS AND TALKS:

Aug.	1993	Department of Anatomy & Physiology, University of Dundee, Dundee, U.K.
Nov.	1999	Department of Physiology and Biophysics, U. So. Fla. College of Medicine
Dec.	1999	Department of Pharmacology, University of Florida College of Medicine
Nov.	2000	Department of Physiology and Pharmacology, U. Queensland, Australia
Oct.	2001	Dept. Molecular and Cellular Pharmacology, Univ. of Miami School of Medicine
April.	2003	AstraZeneca, Wilmington, DE
May	2003	East Tennessee State University College of Medicine
March	2004	Department of Biochemistry, University of So. Fla. College of Medicine
Sept.	2004	Department of Physiology and Biophysics, U. So. Fla. College of Medicine
April	2005	Department of Biology, Ave Maria University, Naples FL.
Aug.	2005	Merck, West Point, PA
Dec.	2005	Dept. Molecular and Cellular Pharmacology, Univ. of Miami School of Medicine, Miami, FL
July	2006	FAMU/USF Health Research Collaboration Retreat, Chinsegut Hill Conference & Retreat Center, Brooksville, FL
July	2006	Department of Molecular Pharmacology and Physiology Research Retreat, U. So. Fla. College of Medicine
Sept.	2006	Department of Chemistry, University of South Florida
Sept.	2007	Department of Biology, University of South Florida
Jan.	2008	College of Medicine, University of Central Florida
Mar.	2008	Department of Neuroscience, University of Toledo College of Medicine
April	2008	Department of Pharmacology, Howard University College of Medicine

Nov. 2008 Institute on Teaching and Mentoring, The Compact for Faculty Diversity, Southern Regional Education Board, Atlanta
Feb. 2010 Moffitt Cancer Research Center
July 2010 University of South Florida College of Medicine
July 2011 Department of Molecular Medicine, University of South Florida College of Medicine
Sept. 2012 IBG Generium Pharmaceutical Corporation, Moscow, Russian Federation
April 2013 Morton Plant Mease Turley Family Health Center, Clearwater, FL

PATENTS:

2005 Effective Treatment with Sigma Receptor Agonists Post-Stroke. USF Ref: 05A046PRC, *U.S. patent pending*.
2005 Screening for New Agents for Post-Stroke Treatment. USF-05B105, *U.S. patent pending*.
2009 Nucleic acids encoding functional splice variants of the α7 nicotinic acetylcholine receptor subunit and methods for producing the encoded proteins, United States Patent 7563595.
2010 N, N'-di-p-bromophenyl Guanidine Treatment for Stroke at Delayed Timepoints. 08A048PRWOUS, *U.S. patent pending*.
2011 Compounds and Methods to Dysregulate of Ca^{2+} Homeostasis for Cancer Treatment. 1372.635.PRC, *U.S. patent pending*.
2011 A Microfluidic Device that Generates Actively Communicating, Adjacently Located, Healthy, Apoptotic, and Necrotic Neural Cells Mimicking Conditions in the Penumbral Region in the Neural Tissue Following an Ischemic Stroke, in vitro. 12A047. *U.S. patent pending*.
2012 N-(naphthalen-1-yl)-benzamidine HCl reduces infarct volume and increases functional recovery after stroke. 12A015PR_Pennypacker. *U.S. patent pending*.
2012 Method for Reducing Neurological Damage Induced by Ischemic Stroke. 12A034PR_Cuevas. *U.S. patent pending*.

TEACHING:

COURSES TAUGHT:

Graduate Medical:

2010 **Neurology Residency Program Basic Science Lecture**. Prepared and delivered lectures on the physiology autonomic nervous system and disease states that affect the ANS, including Parkinson's disease and multiple sclerosis.

Undergraduate Medical:

At University of South Florida College of Medicine:

2000-2011 **Medical Pharmacology** (BMS 6400). Prepared and delivered lectures on the pharmacology of the autonomic nervous system, and pharmacotherapy for

hypertension, edematous states, angina, myocardial infarction and congestive heart failure.

2000-2007 **Critical Care Senior Clerkship** (BCC 8190). Prepared and delivered lectures on pharmacological approaches for the treatment of congestive heart failure. Facilitated problem-based learning.

2003-2006 **Profession of Medicine** (BMS 5005). Facilitator for introductory course that uses problem-based learning (PBL) to help students develop the analytical and collaboration skills.

2010-present **Independent Study in Pharmacology and Therapeutics** (MEL 9999D). Facilitated independent study in pharmacology.

2011-present **Basic Medical Sciences Course 6** (BMS 6042). Prepared and delivered lectures on the pharmacology of the autonomic nervous system, and pharmacotherapy for hypertension, edematous states, angina, myocardial infarction and congestive heart failure.

2013-present **Evidence-Based Clin Reasoning II** (BMS 6837). Facilitator for course that uses problem-based learning (PBL) to help students develop the analytical and collaboration skills.

At University of Central Florida College of Medicine:

2010 **S-3 Cardiovascular and Pulmonary Systems Module.** Prepared and delivered lectures on the pharmacology of the autonomic nervous system, and pharmacotherapy for hypertension, edematous states, angina, myocardial infarction and congestive heart failure.

Graduate Physical Therapy:

2006-2008 **Pharmacology for Healthcare Professionals** (PHT 6352). Prepared and delivered lectures cholinergic pharmacology, and pharmacotherapy for the treatment of myocardial ischemia and congestive heart failure.

Graduate Medical Sciences:

1999-2005 **Pharmacology Research Rotations** (GMS 6503). Supervised directed research conducted graduate by various students. **Course director** from 2001 to 2003.

1999-2002 **Molecular and Cellular Pharmacology** (GMS 6501). Prepared and delivered lectures on membrane biophysics, structure-function relationship of voltage-gated ion channels and pharmacology of voltage-gated ion channels.

1999-present **Graduate Seminar** (GMS 7939). Attended seminars and provided feedback to graduate students to improve on their presentation skills.

1999-present **Directed Research** (GMS 7418). Supervised directed research conducted by various graduate students.

1999-present **Doctoral Dissertation** (GMS 7980). Supervised dissertation research conducted by students listed below.

2000-2003 **Pharmacology of Physiological Systems** (GMS 6502). Prepared and delivered lectures on the pharmacology of the autonomic nervous system, on synaptic integration, and on the pathophysiology of congestive heart failure and

pharmacological approaches for the treatment of this syndrome.

2001 **Supervised Field Experience** (PHC 6945). Supervised directed research conducted by Paul Grivas Spring/Summer 2001.

2001-present **Current Literature in Pharmacology** (GMS 6511). **Course director** for journal club format course, Summer semester 2001.

2002-present **Membrane Physiology** (GMS 6433). Prepared and delivered lectures on the structure-function relationship of ligand-gated ion channels and on the analysis of the biophysical properties of single-channels.

2002 **Cellular and Molecular Physiology** (GMS 7930). Prepared and delivered lecture on the biochemical and biophysical properties of plasma membranes.

2003-present **Foundation in Biomedical Sciences** (GMS 6001). Assisted in the development of course content. Prepared and delivered lecture on the biochemical and biophysical properties of plasma membranes and an introduction to ion channel function.

2003-present **Ion Channel Pharmacology and Disease** (GMS 6512). **Course director.** Developed course content and prepared and delivered lectures on voltage-gated Ca^{2+} channels, voltage-gated Cl^- channels, CFTR and gap junctions.

2003-present **Principles of Pharmacology and Therapeutics** (GMS 6513). Developed course content.

2003-present **Neuropharmacology** (GMS 6735). Assisted in the development of course content. Prepared and delivered lectures on membrane biophysics, pharmacology of histamine receptors, function of atypical neurotransmitters in the CNS, pharmacology of adenosine/purine/pyrimidine receptors, and physiology and pathobiology of the autonomic nervous system.

2003-present **Neuroscience** (GMS 6020). Assisted in the development of course content. Prepared and delivered lectures on the peripheral nervous system and integration of afferent autonomic signals in the central nervous system.

2003-2012 **Systems Physiology and Pharmacology** (GMS 6461). **Course director.** Developed course content. Prepared and delivered lectures on pharmacology of the autonomic nervous system, vasodilators, vasoactive peptides, diuretics and the molecular basis of vascular disease.

2006-present **Cardiovascular regulation** (GMS 6410). Prepared and delivered lectures on autonomic nervous system regulation of cardiovascular function and ion channels of vascular smooth muscle and endothelial cells.

2006-present **Lab Rotations in Biomedical Sciences** (GMS6942). Supervised directed research conducted by students in my laboratory.

2008-present **Experimental Design and Analysis** (GMS 6103). Prepared and delivered lectures on the design and execution of in vitro and in vivo pre-clinical studies. Facilitated student learning using the subject of drug development for stroke therapy.

2008-present **Medical Science Learning Skills** (GMS7930). Prepared and delivered lecture on pharmacotherapy in heart failure.

2012-present **Basic Medical Pharmacology** (GMS 6505). Prepared and delivered lectures on the pharmacology of the autonomic nervous system, and pharmacotherapy for hypertension, edematous states, angina and congestive heart failure.

2014-present **Advanced Medical Neurosciences** (GMS 7930). **Course director.** Prepared and delivered lectures on mechanisms of ionic homeostasis in neurons and glial cells and methods of electrophysiology and ion imaging in neuroscience.

Undergraduate:

1999-2005 **Principles of Human Pharmacology** (BMS 4402). Prepared and delivered lectures on the physiology and pharmacology of the autonomic nervous system (1999-present). Served as instructor and supervisor to graduate student presenting these lectures (2001-2005).

1999-2000 **Microbiology Undergraduate Research** (MCB 4910). Supervised directed research conducted by Bernadette Christian and Sheila Chandrahasa.

2003-2004 **Independent Study Research** (EDG 4909). Supervised directed research conducted by Waldo Guerrero

2004-2005 **Honors Thesis** (IDH 4970). Supervised directed research conducted by Crystal Reed.

2013-2014 **Independent Study Research** (EDG 4909). Supervised directed research conducted by Pamela Benavides.

DOCTORAL DISSERTATIONS DIRECTED: (Chairman, Ph.D. Committees)

2002-2005 Hongling Zhang, Department of Pharmacology and Therapeutics, University of South Florida College of Medicine, *Currently working as a Staff Fellow for the U.S. Food and Drug Administration.*

2002-2005 Wayne I. Dehaven, Department of Pharmacology and Therapeutics, University of South Florida College of Medicine, *Currently working as a Lead Pharmacologist for the U.S. Food and Drug Administration.*

2006-2009 Yelenis Herrera, Department of Molecular Pharmacology and Physiology, University of South Florida College of Medicine, *Currently a Postdoctoral Associate in the laboratory of Patrick Griffin, Ph.D., Chairman and Professor, Department of Molecular Therapeutics, Scripps Research Institute, Florida Campus*.

2007-2012 Timetria Bonds, Department of Molecular Pharmacology and Physiology, University of South Florida College of Medicine. *Currently working as an Assistant Professor in the Department of Biology, Alabama State University*.

2010-2012 Stephanie Hart-Hughes, USF Scholars in Patient-Oriented Research (SPOR) K30 Program. Department of Molecular Pharmacology and Physiology, University of South Florida College of Medicine

2013-present Adam A. Behensky, Department of Molecular Pharmacology and Physiology, University of South Florida College of Medicine

DOCTORAL DISSERTATION COMMITTEES:

2000-2003 Qingli Zhang, Department of Physiology and Biophysics, University of South Florida College of Medicine.

2000-2005 Christopher Rogers, Department of Pharmacology and Therapeutics, University of South Florida College of Medicine.

2002-2004 Chad Dickey, Department of Pharmacology and Therapeutics, University of South Florida College of Medicine.

2003-2005 Donna Herber, Department of Pharmacology and Therapeutics, University of

South Florida College of Medicine.

2004-2006 Michelle Hamel, Department of Pharmacology and Therapeutics, University of South Florida College of Medicine.

2004-2007 Daniel Paredes, Department of Molecular Pharmacology and Physiology, University of South Florida College of Medicine

2005-2007 Craig T. Ajmo, Department of Molecular Pharmacology and Physiology, University of South Florida College of Medicine

2005 Karla Mihalak, *External Examiner*, Structure and Dynamics of the Zinc Potentiation Site of Neuronal Nicotinic Acetylcholine Receptors, University of Miami College of Medicine, Department of Molecular and Cellular Pharmacology.

2005-2010 Rafael Chaparro, Department of Molecular Pharmacology and Physiology, University of South Florida College of Medicine

2007-2009 Aaron A. Hall, Department of Molecular Pharmacology and Physiology, University of South Florida College of Medicine

2007-2009 Tara A. Schwetz, Department of Molecular Pharmacology and Physiology, University of South Florida College of Medicine

2007-2011 Michelle Cortes-Salva, Department of Chemistry, University of South Florida, *Co-Mentor*.

2008-2012 Ellisa C. Parker-Athill, Neuroscience Concentration, University of South Florida College of Medicine, *Co-Mentor*.

2009-present Melissa Price, Cancer Biology, Moffitt Cancer Research Center

2010-2012 Adam Smith, Department of Molecular Pharmacology and Physiology, University of South Florida College of Medicine

2010-2013 Anthony Gebhard, Department of Molecular Pharmacology and Physiology, University of South Florida College of Medicine

2010-2012 Amanda Rowe, Department of Molecular Pharmacology and Physiology, University of South Florida College of Medicine

2010-2011 Enrique Gonzalez-Velez, Center for Urban Transportation Research, University of South Florida

2011-present Erica Fratz, Department of Molecular Medicine, University of South Florida College of Medicine

2011-2013 Vladimir Valdez, Department of Molecular Medicine, University of South Florida College of Medicine

2011-2013 Lika Nesuashvili, Department of Molecular Pharmacology and Physiology, University of South Florida College of Medicine

2013-present Justin Hooper, Department of Molecular Pharmacology and Physiology, University of South Florida College of Medicine

MASTERS THESIS SUPERVISED:

2004-2005 Vanessa Escobar, Department of Pharmacology and Therapeutics, University of South Florida College of Medicine.

2004-2005 Corey Rosenbaum, Department of Pharmacology and Therapeutics, University of South Florida College of Medicine

2000-2004 Siragavarapu Raghavendra, Department of Pharmacology and Therapeutics, University of South Florida College of Medicine.

2005-2006 Luis Gonzalez-Parra, Co-Chair, Department of Pharmacology and Therapeutics, University of South Florida College of Medicine.

UNDERGRADUATE HONORS THESIS SUPERVISED:

2004	Waldo R. Guerrero, Honors College, University of South Florida.
2004	Crystal Reed, Honors College, University of South Florida
2007	Jael Rodriguez, University of South Florida
2010	Ana Rioja, Honors College, University of South Florida
2010	Samantha Dedrick, Honors College, University of South Florida

POSTDOCTORAL TRAINEES:

2002-2004	Emily G. Severance, Ph.D., *Currently working as an Assistant Professor in the Stanley Division of Developmental Neurovirology, Johns Hopkins University School of Medicine, Baltimore, MD.*
2005-2009	Christopher Katnik, PhD.

AWARDS OF STUDENTS AND POSTDOCTORAL TRAINEES:

Wayne I. DeHaven	University of South Florida College of Medicine Research Day, Outstanding Graduate Student Presentation, 2001
Hongling Zhang	University of South Florida College of Medicine Research Day, Outstanding Graduate Student Presentation, 2002
Hongling Zhang	American Heart Association Florida/Puerto Rico Affiliate Predoctoral Fellowship Award, 2003-2005
Wayne I. DeHaven	American Heart Association Florida/Puerto Rico Affiliate Predoctoral Fellowship Award, 2003-2005
Wayne I. DeHaven	International Neuropeptide Society Young Investigator Award, 2004
Emily G. Severance	Women in Neuroscience, Society for Neuroscience Travel Award, 2003
Waldo Guerrero	University of South Florida Undergraduate Research Symposium, Natural Sciences, Apprentice Research Division, Winner, 2004
Crystal Reed	University of South Florida Undergraduate Research Symposium, Natural Sciences, Poster Division, Winner, 2004
Yelenis Herrera	McKnight Fellowship, University of South Florida, 2006-2008
Timetria Bonds	Pride Fellowship, University of South Florida, 2006-2009
Yelenis Herrera	University of South Florida College of Medicine Research Day, Outstanding Graduate Student Presentation, 2007
Michelle Cortes-Salva	Graduate Multidisciplinary Scholars Award, Florida Center of Excellence for Biomolecular Identification and Targeted Therapeutics (Co-mentor), 2007
Yelenis Herrera	Women in Neuroscience, Society for Neuroscience Travel Award, 2007
Timetria Bonds	American Physiological Society William Townsend Porter Pre-doctoral Fellowship Award, 2010
Timetria Bonds	APS/NIDDK Minority Travel Fellowship Awards, 2011

IN SERVICE AND CONTINUING EDUCATION SEMINARS:

Jan. 2008	The Hospice of the Florida Suncoast, Pinellas Park, Fla. “Overview and Treatment of Congestive Heart Failure”

Feb. 2008 The Hospice of the Florida Suncoast, Pinellas Park, Fla. "Vasoactive Peptides"

OTHER EDUCATIONAL ACTIVITIES:

2002-2011	Faculty Mentor, McNair Scholars Program, University of South Florida
2005-2010	Faculty Mentor, Marc/U-STAR Scholars Program, University of South Florida
2010-present	Founder and Director of Medical Mission to Dilaire, Haiti. Goal of medical mission is to provide educational opportunity to medical students and medical residents in a rural, underserved, tropical environment.

SERVICE:

SCIENTIFIC/MEDICAL ADVISORY BOARDS:

2008-2012	American Heart Association Greater Southeast Affiliate Research Committee
2012-present	American Heart Association Metro Tampa Bay

UNIVERSITY SERVICE:

2000-present	USF HSC Research Day; Judge, 2000-2001; Judging Committee Chair, 2002-2004.
2003-2011	Faculty Advisor, McNair Scholars Program
2004-present	Faculty Advisor, Latino Medical Student Association
2005-2010	Faculty Advisor, Marc/U-STAR Scholars Program

UNIVERSITY COMMITTEES:

1999-2006	Department of Pharmacology and Therapeutics Graduate Student Advisory Committee, Chairman 2000-2003.
2000-2003	Graduate Coordinators Committee, University of South Florida College of Medicine
2000-2004	Research Committee, University of South Florida College of Medicine
2002-2005	Health Sciences Center Representative, USF Hazardous Materials and Inventory Tracking System (HITS) Development Committee
2002-2003	Graduate Curriculum Development Committee, USFCOM
2002	Chairman, Graduate Admissions, Recruiting and Marketing Development Committee, USFCOM
2003	Subcommittee on Research Space Allocation, USFCOM Research Committee
2003	Subcommittee on Research Incentive Award, USFCOM Research Committee
2003-2004	University of South Florida College of Medicine Excellence in Research Seminar Series, Chairman
2004-2008	Faculty Council, University of South Florida College of Medicine

2005-2006	Laboratory Safety Committee, University of South Florida
2005-2006	Dean's Research Advisory Group, University of South Florida College of Medicine
2005	Biomedical Sciences Faculty Search Committee, University of South Florida College of Medicine, Chair
2005-2007	Diversity Strategic Work Group, University of South Florida College of Medicine
2006	Interim Associate Dean-Graduate & Postdoctoral Affairs Search Committee, University of South Florida College of Medicine
2006-2008	Department of Molecular Pharmacology and Physiology Faculty Search Committee, University of South Florida College of Medicine
2006-2010	Department of Molecular Pharmacology and Physiology Executive Committee, University of South Florida College of Medicine
2006-present	Neuroscience Signature Program Executive Committee, University of South Florida College of Medicine
2006-present	Department of Molecular Pharmacology and Physiology Advancement Promotion and Tenure Committee, University of South Florida College of Medicine
2007	Department of Neurology Chair Search Committee, University of South Florida College of Medicine and Tampa General Hospital
2007	Department of Molecular Pharmacology and Physiology Science Educator Faculty Search Committee, University of South Florida College of Medicine
2007-2008	Faculty Council Faculty Nominating Committee, University of South Florida College of Medicine
2008	Department of Molecular Medicine Chair Search Committee, University of South Florida College of Medicine
2009	Department of Molecular Medicine Faculty Search Committee, University of South Florida College of Medicine
2008-2010	McNair Scholars Advisory Council, University of South Florida
2008-present	Ad Hoc Interviewer, Medical Student Selection Committee, University of South Florida College of Medicine
2008-present	Certified Nurse Anesthetist Advisory Board, University of South Florida College of Nursing
2008-2011	Faculty Forward Task Force, University of South Florida College of Medicine
2009	Dean of the College of Pharmacy Search Committee, University of South Florida
2009-2011	College of Medicine Committee on Research (COMCOR), University of South Florida College
2010	Associate Dean of Faculty Affairs and Associate Dean for Academic & Clinical Affairs USF College of Pharmacy Search Committee, University of South Florida College of Medicine
2010	Chair, Faculty Search Committee, Departments of Pharmaceutical Sciences and Pharmacy Practice, University of South Florida College of Pharmacy
2010	Executive Committee on Research and Education, Ph.D. Program Subcommittee, University of South Florida College of Medicine

2010-2011	Department of Molecular Pharmacology and Physiology Chair Search Committee, University of South Florida College of Medicine
2011-present	Council on Educational Policy and Issues, University of South Florida
2012	Neuroscience Educator Search Committee, University of South Florida College of Medicine
2012	Department of Molecular Pharmacology and Physiology Faculty Search Committee, University of South Florida College of Medicine
2012-present	Faculty Development Committee, Department of Molecular Pharmacology and Physiology, University of South Florida College of Medicine
2013-2014	Vice President of USF Health and Dean of the USF Morsani College of Medicine President Search Advisory Committee.
2014-present	LCME Self-Study Faculty Affairs Subcommittee, Chair
2014	LCME Self-Study Executive Committee, member

MEMBERSHIP IN SCIENTIFIC SOCIETIES:

Society for Neuroscience
American Society for Pharmacology and Experimental Therapeutics
American Heart Association

EDITORIAL BOARDS:

2001-2004	xPharm, Elsevier Inc., Assistant Editor
2009-present	International Journal of Physiology, Pathophysiology and Pharmacology, Associate Editor
2011-present	Frontiers in Cardiac Electrophysiology, Review Editor

JOURNAL REFEREE:

American Journal of Physiology
Autonomic Neuroscience: Basic and Clinical
BBA - Molecular Cell Research
Biochemical Pharmacology
Bioorganic & Medicinal Chemistry Letters
Brain Research
British Journal of Pharmacology
Cell Calcium
Diabetes
Experimental Physiology
Experimental Neurology
Expert Opinion on Therapeutic Targets
Journal of Neurochemistry
Journal of Neurophysiology
Journal of Neuroscience Research
Journal of Pharmacology and Experimental Therapeutics
Journal of Pharmacological and Toxicological Methods
Life Sciences
Molecular Pharmacology

Molecular Cancer Therapeutics
Neuroscience
Neuroscience Letters
Peptide Research
Small Ruminant Research
Toxicology and Applied Pharmacology

GRANT REVIEWER:

2000-2007	American Heart Association, Southeast/Ohio Valley Consortium
2005-2006	Philip Morris External Research Program
2006-2007	Ad-Hoc Member, Neurotransporters, Receptors, and Calcium Signaling (NTRC) Study Section, NIH
2007	NIH EARDA Pilot Project, Universidad Central del Caribe
2008-2010	American Heart Association, Region I, Cardiac Biology Regulation Study Section
2010-2011	American Heart Association, Cardiac Biology/Regulation–Basic & Clinical/Translational 3 (Cardiac Bio BCT3)
2007-2009	Florida Center of Excellence-Biomolecular Identification and Targeted Therapeutics, Seed Grant Reviewer
2011-present	American Heart Association Greater Southeast Affiliate Innovative Research Grant Peer Review Study Group
2011-present	American Heart Association Brain/Stroke Basic Science 3&4

COMMUNITY SERVICE:

1989-1991	Coordinator, Encuentros Juveniles, Archdioceses of Miami, Miami, FL.
1991-1994	Youth Minister, Pastoral Council, St. Dominic Catholic Church, Miami, FL.
1997-1998	Young Adults Minister, UCSD Catholic Community, La Jolla, CA.
1999-2004	Faculty Mentor, AHEC Minority High School Student Research Program, University of South Florida College of Medicine. Nicole Dempsey, Crystal Reed, Mike Pedersen, Ramani Rasile, April Nelson.
2005-present	School Advisory Committee, Lawton Chile Elementary, Tampa Fl.
2007-present	Corpus Christi Catholic Church, Safe Environment Trainer
2007-present	Corpus Christi Catholic Church, Catechism Instructor
2008-2009	New Tampa YMCA Boys Basketball, Volunteer Coach
2009-2010	Lutz Little League, Volunteer Coach
2009-present	Medical Mission to Dilaire, Haiti; Director