

Curriculum Vita

Laura Elena O'Dell, Ph.D.

(updated 2/2016)

Contact information

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Education

1992 B.S., Psychology Major, Biology Minor, Texas A&M University
1994 M.A., Behavioral Neuroscience Program, Arizona State University
1997 Ph.D., Behavioral Neuroscience Program, Arizona State University

Academic and Professional Experience

1997-1999 Post-Doctorate, Behavioral Genetics, Amethyst Technologies, Scottsdale, AZ
1999-2000 Post-Doctorate, Neurochemistry, Scripps Research Institute, La Jolla, CA
2000-2004 Staff Scientist, Neuropharmacology, Scripps Research Institute, La Jolla, CA
2005-2010 Assistant Professor, Department of Psychology, UTEP, El Paso, TX
2010-2015 Associate Professor, Department of Psychology, UTEP, El Paso, TX

Presidential Award

2008-*Presidential Early Career Award for Scientists and Engineers (PECASE)*, given by the National Science and Technology Council. The PECASE award is the highest honor bestowed by the U.S. government on outstanding scientists and engineers beginning their independent careers. The PECASE award is intended to recognize scientists and engineers who show exceptional potential for leadership and service at the frontiers of scientific knowledge. The awards are conferred by annually at the White House by the president following recommendations from participating agencies. In 2008, 12 persons were selected for the PECASE award from the NIH. This award also provided a 5-year extension of my R01 grant.

University Honors

2016 *Outstanding Performer Award for Securing Extramural Funding* given by the UTEP Office of Research and Sponsored Projects.
2015 *Faculty Mentor Award* given by the UTEP College of Undergraduate Research Initiatives

- 2012-2013 *Outstanding Performer Award for Securing Extramural Funding* given by the UTEP Office of Research and Sponsored Projects.
- 2007-2008 *Outstanding Performer Award for Securing Extramural Funding* given by the UTEP Office of Research and Sponsored Projects.
- 2006-2007 *Outstanding Young Investigator Award* in The College of Liberal Arts, given by the UTEP Office of Research and Sponsored Projects.

Travel Awards

- 2009 *Travel Award*, American College of Neuropsychopharmacology
- 1999 *Travel Award*, College on Problems of Drug Dependence
- 1997 *Director's Travel Award*, College on Problems of Drug Dependence
- 1996 *Travel Award*, International Behavioral Neuroscience Society
- 1993 *Travel Award*, Society for Neuroscience

Funded Grants

Current Support

Insulin Mechanisms of Diabetes-Evoked Enhancement of Nicotine Reward

Role: Co-Investigator; Agency: NIDA; Type: R15 (DA040130); Total Costs: \$300,000; Period: 9/1/15-8/30/18; Goal: To examine the neurochemical mechanisms by which insulin promotes the rewarding effects of nicotine.

Sex Differences in the Mechanisms that Promote Nicotine Reward and Withdrawal

Role: Primary Investigator; Agency: NIDA; Type: R01 (2DA021274); Total Costs: \$2,000,000; Period: 5/1/14-4/30/19; Goal: To examine sex differences in the neurochemical mechanisms that promote the rewarding effects of nicotine and the aversive effects of withdrawal.

Research Excellence for Undergraduates (REU) Summer Mentoring And Research Training: Methods In Neuroscience of Drug-Abuse (SMART MIND).

Role: Primary Investigator; Agency: NIH/NIDA; Type: R25 (DA033613); Total costs: \$534,879; Period: 5/1/12-4/31/16; Goal: To enrich the science education and research training of undergraduate students and high school teacher-student teams with a specific focus on the neuroscience of drug-addiction.

Diversity Institution Drug Abuse Research Program: Vulnerability Issues in Drug Abuse (VIDA)

Role: Collaborating Investigator on primary project entitled, *Stress-induced increases in vulnerability to substance abuse and addiction*; Agency: NIH/NIDA; Type: R24 (DA029989); Total costs: \$1,712,042 (\$168,087 for project); Period: 3/4/11-3/3/16; Goal: To train minority scientists in multidisciplinary approaches to study of drug abuse on the U.S./Mexico border. It is expected that vulnerability in this population will be highly influenced by stress, which may be worsened or alleviated by factors such as age and/or sex, which are the focus of our sub-project.

Drugs of Abuse and Remodeling of the Neuronal Cytoskeleton

Role: Co-Primary Investigator; Agency: NIH; Type: BBRC Pilot project (2G12MD007592);

Total Costs: \$25,000; Period: 4/1/15-3/31/16; Goal: To examine if Gβγ-mediated changes in cytoskeleton organization modulate the development of alcohol and nicotine dependence.

Previous Support

Diabetes Enhances Susceptibility to the Rewarding Effects of Nicotine

Role: Primary Investigator; Agency: American Diabetes Association; Type: Basic Science Award (7-12-BS-135) Total costs: \$345,000; Period: 7/1/12–6/30/15; Goal: To examine the neurobiological mechanisms that promote tobacco use vulnerability in diabetic subjects.

Nico-teen: Mechanisms of Nicotine Reward and Withdrawal During Adolescence

Role: Primary Investigator; Agency: NIDA; Type: R01 (DA021274); Total Costs: \$1,563,874; Period: 7/1/07-4/31/14; Goal: To examine the neurochemical mechanisms that mediate developmental and sex differences to the rewarding and aversive effects of nicotine. This grant was extended via a *Presidential Early Career Award for Scientists and Engineers (PECASE)* award, which is administered by the Executive Office of Science and Technology.

Neural Mechanisms Mediating Enhanced Tobacco Abuse in Diabetic Rats

Role: Primary Investigator; Agency: NIH; Type: Pilot project (5G12RR008124); Total Costs: \$25,000; Period: 1/1/12-6/30/12; Goal: To examine the neurochemical mechanisms that mediate enhanced rewarding effects of nicotine in an animal model of diabetes.

Neurobehavioral correlates of nicotine withdrawal in adult versus adolescent rats

Role: Primary Investigator; Agency: NSF; Type: Support of Mentors and Students Program (DUE 04-26266); Total Costs: \$10,000; Period: 5/1/05-7/31-05; Goal: To provide support for a student and mentor working together on a summer research project. The project examined the neural and behavioral mechanisms of developmental sensitivity to nicotine dependence.

National Institute on Drugs of Abuse Summer Research Program

Role: Mentor; Agency: NIDA; Type; R01 (DA021274-S1); Total Costs: \$11,880, \$10,000, \$10,000; Period: 6/1/09-8/15/09 and 6/1/13-8/15/13 and 6/11/15-8/1/15; Goal: To provide support for undergraduate students to work on a summer research project. The students were given the opportunity to learn new research skills on projects related to the mechanisms of developmental sensitivity to nicotine dependence. We participated in this program for 3 summers.

Nicotine Self-Administration in an Animal Model

Role: Co-Investigator; Agency: Tobacco-Related Disease Research Program (California); Type: 12RT-0099; Total Costs: \$675,195; Period: 7/1/03-6/30/06; Goal: To characterize the acquisition of unlimited access to nicotine using the intravenous self-administration model and the transition of self-administration to nicotine dependence.

Minority Neuroscience Training Program

Role: Graduate Fellow; Agency: National Institute on Mental Health; Type: T32 (MH19185); Period: 7/1/93-8/2/96; Goal: To characterize the role of dopamine (D1 and D2) receptor subtypes in mediating the rewarding and stimulant effects of cocaine in rats.

Supplement to Nico-teen: Mechanisms of Nicotine Reward and Withdrawal During Adolescence
Role: Primary Investigator; Agency: NIDA; Type: R01 (DA021274-02S1); Total Costs: \$213,079; Period: 6/1/08-3/31/11; Goal: To support a post-doctoral trainee (Dr. James Orfila) in his research endeavors involving the neural mechanisms of nicotine withdrawal.

Mechanisms of developmental sensitivity to nicotine withdrawal

Role: Mentor; Agency: NIDA; Type: F31 (DA021133); Total Costs: \$78,495; Period: 6/1/08-5/31/11 Goal: To support a pre-doctoral trainee (Luis Natividad) in his research endeavors involving the neurochemical mechanisms that mediate developmental sensitivity to nicotine dependence.

The University of Texas System: Annual Allocation of PUF Reserves Program

Role: Participating Investigator; Agency: Laboratory Equipment Repair and Rehabilitation (LERR) Program; Type: Equipment Grant; Total Costs: \$500,000; Period: FY 2011; Goals: This was a joint proposal between UTEP and the UT Health Science Center at San Antonio. The 3 participating investigators developed a plan that will codify a major collaborative effort that capitalizes upon our strengths in the neural basis of diabetes and addiction. Our equipment request will provide resources to generate important information in our converging lines of research on diabetes and addiction.

Modification of Genes and Behavior by Stress; Enhanced Vulnerability to Addiction

Role: Co-Primary Investigator; Agency: NIH; Type: Pilot project (5G12RR008124); Total Costs: \$25,000; Period: 10/1/10-6/30/11; Goals: To examine the role of stress in the escalation of methamphetamine self-administration in rats.

Publications

1. Carcoba, L.M., Torres, O.V., Pipkin, J.A., Ontiveros, T., and L.E. O'Dell. (2016). Insight into the potential factors that promote tobacco use in vulnerable populations. Invited review for the journal *Current Addiction Reports*, in press.
2. D'Arcy, C., Luevano, J.E., Miranda, M.M., Pipkin, J.A., Jackson, J.A., Castañeda, E., Gosselink, K.L., and O'Dell, L.E. (2016). Extended access to methamphetamine self-administration up-regulates dopamine transporter levels 72 hours after withdrawal in rats. *Behavioural Brain Research*, 296: 125-128.
3. O'Dell, L.E. and Nazarian, A. (2016). Enhanced vulnerability to tobacco use in persons with diabetes: A behavioral and neurobiological framework. *Progress in Neuro-Psychopharmacology and Biological Psychiatry*, 65: 288-296.
4. Torres, O.V. and O'Dell, L.E. (2016). Stress is a principal factor that promotes tobacco use in females. *Progress in Neuro-Psychopharmacology and Biological Psychiatry*, 65: 260-268.
5. Torres, O.V., Pipkin, J.A., Ferree, P., Carcoba, L.M., and O'Dell, L.E. (2015). Nicotine withdrawal increases stress-associated genes in the nucleus accumbens of female rats in a hormone-dependent manner. *Nicotine and Tobacco Research*, 17: 422-430.
6. O'Dell, L.E., Natividad, L.A., Pipkin, J.A., Roman, F., Torres, I.D., Juardo, J., Torres, O.V., Friedman, T.C., Tenayuca, J.M., and Nazarian, A. (2014). Enhanced nicotine self-administration and suppressed dopaminergic systems in a rat model of diabetes. *Addiction Biology*, 19: 1006-1019.

7. Richardson, J.R., Pipkin, J.A., O'Dell, L.E., and Nazarian, A. (2014). Insulin-resistant rats display enhanced nicotine reward following a high-fat diet regimen. *Drug and Alcohol Dependence*, 140: 205-207.
8. Carcoba, L.M., Orfila, J.E., Natividad, L.A., Torres, O.V., Pipkin, J.A., Ferree, P.L., Castañeda, E., Moss, D., and O'Dell, L.E. (2014). Cholinergic transmission during nicotine withdrawal is influenced by age and pre-exposure to nicotine: Implications for teenage smoking. *Developmental Neuroscience*, 36: 347-355.
9. Torres, O.V., Walker, E.M., Beas, B.S., and O'Dell, L.E. (2014). Female rats display enhanced rewarding effects of ethanol that are hormone dependent. *Alcoholism: Clinical and Experimental Research*, 38:108-115.
10. Natividad, L.A., Torres, O.V., Friedman, T.C., and O'Dell, L.E. (2013). Adolescence is a period of development characterized by short- and long-term vulnerability to the rewarding effects of nicotine and reduced sensitivity to the anorectic effects of this drug. *Behavioural Brain Research*, 257:275-285.
11. O'Dell, L.E. and Torres, O.V. (2014). A mechanistic hypothesis of the factors that enhance vulnerability to nicotine use in females. *Neuropharmacology*, 76:566-580.
12. Torres, O.V., Gentil, L., Natividad, L.A., Carcoba, L.M., and O'Dell, L.E. (2013). Behavioral, biochemical and molecular indices of stress are enhanced in female versus male rats experiencing nicotine withdrawal. *Frontiers in Addictive Disorders and Behavioral Dyscontrol*, 4:1-12.
13. Natividad, L.A., Buczynski, M.W., Parsons, L.H., Torres, O.V., and O'Dell, L.E. (2012). Adolescent rats are resistant to adaptations in excitatory and inhibitory mechanisms that modulate mesolimbic dopamine during nicotine withdrawal. *Journal of Neurochemistry*, 123:578-588.
14. Tejada, H.A., Natividad, L.A., Orfila, J.E., Torres, O.V., and O'Dell, L.E. (2012). Dysregulation of kappa-opioid receptor systems by chronic nicotine modulate the nicotine withdrawal syndrome in an age-dependent manner. *Psychopharmacology*, 224:289-301.
15. Mangubat M., Lutfy, K., Lee, M.L., Pulido, L., Stout, D., Davis, R., Seasholtz, S., Sinha-Hikim, A., Sinha-Hikim, I., O'Dell, L.E., Lyzlov, A., Liu, Y., and Friedman, T.C. (2012). Effect of nicotine on body composition. *Journal of Endocrinology*, 212:317-326.
16. O'Dell, L.E. (2011). Nico-teen: Neural substrates that mediate adolescent tobacco abuse. *Neuropsychopharmacology, Hot Topics issue*, 36:356-357.
17. Vuong, C., Van Uum, S.H.M., O'Dell, L.E., Lutfy, K., and Friedman, T.C. (2010). The effects of opioids and opioid analogues on animal and human endocrine systems. *Endocrine Reviews*, 31:98-132.
18. Natividad, L.A., Tejada, H.A., Torres, O.V., and O'Dell, L.E. (2010). Nicotine withdrawal produces a decrease in extracellular levels of dopamine in the nucleus accumbens that is lower in adolescent versus adult male rats. *Synapse*. 64:136-145.
19. Abdallah, L., Bonasera, S.J., Hopf, W., O'Dell, L.E., Giorgetti, M., Jongasma, M., Carra, S., Esposito, E., Parsons, L.H., Bonci, A., and Tecott, L.H. (2009). Impact of 5-HT_{2C} receptor null mutation on physiology and behavior associated with nigrostriatal dopamine pathway function. *The Journal of Neuroscience*, 29:8156-8165.
20. Torres, O.V., Natividad, L.A., Tejada, H.A., Van Weelden, S.A., and O'Dell, L.E. (2009). Female rats display dose-dependent differences to the rewarding and aversive effects of nicotine in an age-, hormone-, and sex-dependent. *Psychopharmacology*, 206:303-312.

21. Francesconi, W., Berton, F., Repuente-Canonigo, V., Hagihara, K., Thurbon, D., Lekic, D., Specio, S., Greenwell, T., Chen, S., Rice, K., Richardson, H.N., O'Dell, L.E., Zorrilla, E., Morales, M., Koob, G.F., and Sanna, P.P. (2009). Protracted withdrawal from alcohol and drugs of abuse impairs long-term potentiation of intrinsic excitability in the juxtacapsular bed nucleus of the stria terminalis. *The Journal of Neuroscience*, 29:5389-5401.
22. O'Dell, L.E. and Khroyan, T.V. (2009). Rodent models of nicotine reward: What do they tell us about tobacco abuse in humans? *Pharmacology, Biochemistry and Behavior*, 91: 481-488.
23. O'Dell, L.E. (2009). A psychobiological framework of the substrates that mediate nicotine use during adolescence. *Neuropharmacology*, 56:263-278.
24. Richardson, H.N., Lee, S.Y., O'Dell, L.E., Koob G.F., and Rivier, C.L. (2008). Alcohol self-administration acutely stimulates the hypothalamic-pituitary-adrenal (HPA) axis, but alcohol dependence leads to a dampened neuroendocrine state. *European Journal of Neuroscience*, 28:1641-1653.
25. Torres, O.V., Natividad, L.A., Tejada, H.A., and O'Dell, L.E. (2008). Enhanced vulnerability to the rewarding effects of nicotine during the adolescent period of development. *Pharmacology, Biochemistry and Behavior*, 90:658-663.
26. Roberto, M., Gilpin, N.W., O'Dell L.E., Cruz, M.T., Morse A.C., Siggins, G.R., and Koob G.F. (2008). Cellular and behavioral interactions of gabapentin with alcohol dependence. *Journal of Neuroscience*, 28:5762-5571.
27. Specio, S.E., Wee, S., O'Dell, L.E., Boutrel, B., Zorrilla, E.Z., and Koob, G.F. (2008). CRF1 receptor antagonists attenuate escalated cocaine self-administration in rats. *Psychopharmacology*, 196:473-482.
28. George, O., Ghosland S., Azar M.R., O'Dell, L.E., Zorrilla, E.P., Parsons, L.H., Richardson, H.N., and Koob, G.F. (2007). CRF–CRF1 system activation mediates withdrawal-induced increases in nicotine self-administration in nicotine-dependent rats. (2007). *Proceedings of the National Academy of Sciences*, 104:17198-17203.
29. Markou, A., Bruijnzeel, A.W., Parsons, L.H., Goldberger, B.A., Koob, G.F., and O'Dell, L.E. (2007). Diminished nicotine withdrawal in adolescent rats: implications for vulnerability to addiction. *Biological Psychiatry*, 61:191S.
30. Thorsell, A., Rapunte-Canonigo, V., O'Dell, L.E., Chen, S.A., King, A.R., Lekic, D., Koob G.F., and Sanna, P.P. (2007). Viral vector-induced amygdala NPY overexpression reverses increased alcohol intake caused by repeated deprivations in Wistar rats. *Brain*, 130:1330-1337.
31. O'Dell, L.E., Torres, O.V., Natividad, L.A., and Tejada, H.A. (2007). Adolescent nicotine exposure produces less affective measures of withdrawal relative to adult nicotine exposure in male rats. *Neurotoxicology and Teratology*, 29:17-22.
32. O'Dell, L.E. and Koob G.F. (2007). Nicotine deprivation effect in rats with intermittent 23-hour access to intravenous nicotine self-administration. *Pharmacology, Biochemistry and Behavior*, 86:346-353.
33. O'Dell, L.E., Chen, S.A., Specio, S.E., Paterson, N.E., Balster, R.L., Markou, A., E.P. Zorrilla, and Koob, G.F. (2006). Extended access to nicotine self-administration leads to dependence: Circadian measures, withdrawal measures, and extinction behavior in rats. *Journal of Pharmacology and Experimental Therapeutics*, 320:180-193.

34. O'Dell, L.E., Manzardo, A., Polis, I., Stouffer, D.G., and Parsons L.H. (2006). Biphasic alterations in serotonin_{1B} (5-HT_{1B}) receptor function during abstinence from extended cocaine self-administration. *Journal of Neurochemistry*, 99:1363-1376.
35. Funk, C.K., O'Dell, L.E., Crawford, E.L., and Koob, G.F. (2006). Corticotropin-releasing factor within the central nucleus of the amygdala mediates enhanced ethanol self-administration in ethanol-dependent rats during withdrawal. *Journal of Neuroscience*, 26:11324-11332.
36. Frantz, K.J., O'Dell, L.E., and Parsons, L.H. (2006). Behavioral and neurochemical responses to cocaine in periadolescent and adult rats. *Neuropsychopharmacology*, 32:625-637.
37. Chen, S.A., O'Dell, L.E., Lerner, K., Hoefler, M., Zorrilla, E.P., and Koob, G.F. (2006). Unlimited access to heroin self-administration: Independent motivational markers of opiate dependence. *Neuropsychopharmacology*, 31:2692-2707.
38. O'Dell, L.E., Bruijnzeel, A.W., Smith, R.T., Parsons, L.H., Merves, M.L., Goldberger, B.A., Koob, G.F., and Markou, A. (2006). Diminished nicotine withdrawal in adolescent rats: Implications for vulnerability to addiction. *Psychopharmacology*, 186:612-619.
39. O'Dell, L.E., Purdy, R.H., Covey, D.F., Richardson, H.N., Roberto, M., and Koob, G.F. (2005). Epipregnanolone and a novel synthetic neuroactive steroid reduce alcohol self-administration in rats. *Pharmacology, Biochemistry and Behavior*, 81:543-550.
40. Breese, G.R., Chu, K., Dayas, C.V., Funk, D., Knapp, D.J., Koob, G.F., Le, A.D., O'Dell, L.E., Overstreet, D.H., Roberts, A.J., Sinha, R., Valdez, G.R., and Weiss, F. (2005). Stress enhancement of craving during sobriety: A risk for relapse. *Alcoholism: Clinical and Experimental Research*, 29:185-195.
41. O'Dell, L.E., Roberts, A.J., Smith, R.T., and Koob, G.F. (2004). Enhanced operant self-administration of alcohol in Wistar rats receiving intermittent versus continuous alcohol vapor exposure. *Alcoholism: Clinical and Experimental Research*, 28:1676-1682.
42. O'Dell, L.E. and Parsons, L.H. (2004). Serotonin_{1B} receptors in the ventral tegmental area modulate cocaine-induced elevations of dopamine release in the nucleus accumbens. *Journal of Pharmaceutical and Experimental Therapeutics*, 11(2):711-719.
43. O'Dell, L.E., Bruijnzeel, A.W., Ghosland, S., Markou, A. and Koob, G.F. (2004). Nicotine withdrawal in adolescent and adult rats. In: R.E. Dahl and L.P. Spear (Eds.), *Annals of the New York Academy of Sciences* (series title: Adolescent Brain Development: Vulnerabilities and Opportunities) New York Academy of Sciences, New York, 1021:167-174.
44. Koob, G.F., Ahmed, S.H., Boutrel, B., Chen, S.A., Kenny, P.J., Markou, A., O'Dell, L.E., Parsons, L.H., and Sanna, P. (2004). Neurobiological mechanisms in the transition from drug use to drug dependence, *Neuroscience and Biobehavioral Reviews*, 27:739-749.
45. O'Dell, L.E., Alomary, A.A., Vallee, M., Koob, G.F., Fitzgerald, R.L., and Purdy, R.H. (2004). Ethanol-induced increases in neuroactive steroids in the rat brain and plasma are absent in adrenalectomized and gonadectomized rats. *European Journal of Pharmacology*, 484:241-247.
46. Alomary, A.A., Vallee, M., O'Dell, L.E., Koob, G.F., Purdy, R.H., and Fitzgerald, R.L. (2003). Acutely administered ethanol participates in testosterone synthesis and increases testosterone in the rat brain. *Alcoholism: Clinical and Experimental Research*, 27:38-43.
47. Rocha, B.A., Goulding E.H., O'Dell L.E., Mead A.N., Coufal N.G., Parsons L.H., and Tecott L.H. (2002). Enhanced locomotor, reinforcing, and neurochemical effects of cocaine

- in serotonin 5-hydroxytryptamine 2C receptor mutant mice. *Journal of Neuroscience*, 22: 10039-10045.
48. O'Dell, L.E., Li, R., Kreifeldt, M.J., George, F.R., and Ritz, M.C. (2000). Molecular mechanisms mediating genetic sensitivity to cocaine-induced convulsions. *Brain Research*, 863:213-224.
 49. O'Dell, L.E., Kreifeldt, M.J., George, F.R., and Ritz, M.C. (2000). The role of serotonin₂ receptors in mediating cocaine-induced convulsions. *Pharmacology, Biochemistry and Behavior*, 65:677-681.
 50. O'Dell, L.E., George, F.R., and Ritz, M.C. (2000). Antidepressant drugs appear to enhance cocaine-induced toxicity. *Experimental and Clinical Psychopharmacology*, 8:133-141.
 51. O'Dell, L.E., Kreifeldt, M.J., George, F.R., and Ritz, M.C. (1999). Serotonin_{2C} receptors appear to mediate genetic sensitivity to cocaine-induced convulsions. *Psychopharmacology*, 146:313-319.
 52. O'Dell, L.E., Sussman, A.N., Meyer, K.L., and Neisewander, J.L. (1999). Behavioral effects of psychomotor stimulant infusions into amygdaloid nuclei. *Neuropsychopharmacology*, 20:591-602.
 53. Tran-Nguyen, L.T.L., Fuchs, R.A., Coffey, G.P., Baker, D.A., O'Dell, L.E., and Neisewander, J.L. (1998). Time-dependent changes in cocaine-seeking behavior and extracellular dopamine levels in the amygdala during cocaine withdrawal. *Neuropsychopharmacology*, 19:48-59.
 54. Neisewander, J.L., Fuchs, R.A., O'Dell, L.E., and Khroyan, T.V. (1998). Effects of SCH-23390 on dopamine D1 receptor occupancy and locomotion produced by intra-accumbens cocaine infusion. *Synapse*, 30:194-204.
 55. Neisewander, J.L., O'Dell, L.E., Tran-Nguyen, L.T.Y., Castañeda E., and Fuchs, R.A. (1996). Dopamine overflow in the nucleus accumbens during extinction and reinstatement of cocaine self-administration behavior. *Neuropsychopharmacology*, 15:506-514.
 56. Baker, D.A., Khroyan, T.V., O'Dell, L.E., Fuchs, R.A., and Neisewander, J.L. (1996). Differential effects of intra-accumbens sulpiride on cocaine-induced locomotion and conditioned place preference. *Journal of Pharmacology and Experimental Therapeutics*, 279:392-401.
 57. O'Dell, L.E., Khroyan, T., and Neisewander, J.L. (1996). Dose-dependent characterization of the rewarding and stimulant properties of cocaine across intraperitoneal and intravenous routes of administration. *Psychopharmacology*, 123:144-153.
 58. Neisewander, J.L., O'Dell, L.E., and Redmond, J. (1995). Localization of dopamine receptor subtypes occupied by intra-accumbens administration of selective antagonists that reverse cocaine-induced locomotion. *Brain Research*, 671:201-212.

Under review

1. Pipkin, J.A., Ontiveros, T., and L.E. O'Dell. Enhanced tobacco use vulnerability in adolescents, females, and persons with diabetes. Invited chapter for a book entitled, *Negative Affective States and Cognitive Impairments in Nicotine Dependence*.
2. Flores, R.J., Pipkin, J.A., Perez, A., and L.E. O'Dell. Estradiol is an ovarian hormone that promotes the rewarding effects of nicotine in female rats. Under review in the journal *Behavioural Brain Research*.

Abstracts

1. Ibarra, M., Pipkin, J.A., Garcia-Hernandez, R.E., Loveless, K.W., Edwards, V., Martinez, R.D., and O'Dell, L.E. Negative affect produced by nicotine withdrawal is enhanced in diabetic rats. *Campus Office of Undergraduate Research Initiatives Summer Research Symposium*, 2015.
2. Loveless, K.W., Pipkin, J.A., Garcia-Hernandez, R.E., Ibarra, M., Martinez, R.D., Edwards, V., and O'Dell, L.E. Insulin modulates the strong rewarding effects of nicotine in diabetic rats. *Campus Office of Undergraduate Research Initiatives Summer Research Symposium*, 2015.
3. Ontiveros, T., Pipkin, J.A., and L.E. O'Dell. Artistic representation of enhanced tobacco use in vulnerable populations. *Campus Office of Undergraduate Research Initiatives Summer Research Symposium*, 2015.
4. Garcia-Hernandez, R.E., Pipkin, J.A., Hinojosa, C.A., Ibarra, M., Edwards, V., Loveless, K.W., and O'Dell, L.E. Diabetic rats display enhanced rewarding effects of nicotine and aversive effects of withdrawal from this drug. *Campus Office of Undergraduate Research Initiatives Summer Research Symposium*, 2015.
5. Carcoba, L.M and O'Dell, L.E. Nicotine withdrawal produces an increase in extracellular levels of GABA in the nucleus accumbens that is higher in females versus adult male rats. *Behavior, Biology and Chemistry Meeting*, 2015.
6. Flores, R.J., Perez, A., Pipkin, J.A., Tejada, C., and O'Dell, L.E. The rewarding effects of nicotine in female rats are ovarian-hormone dependent. *Behavior, Biology and Chemistry Meeting*, 2015.
7. Pipkin, J. A., Hinojosa, C.A., Edwards, V., Perez, A., Nazarian, A., and O'Dell, L.E. Insulin modulates the enhanced rewarding effects of nicotine in diabetic versus control rats. *Behavior, Biology and Chemistry Meeting*, 2015.
8. Darcy, C., Hamdan, J.N., O'Dell, L.E., and Gosselink, K.L. Impact of homotypic stress exposure on methamphetamine self-administration in rats. *Society for Neuroscience*, 2014.
9. Woldemariam, S.T., Pipkin, J.A., Edwards, V., Hinojosa, C.A., Perez, A., Tejada, C., Valle, I., Withrow, E.B., Carcoba, L.M., and O'Dell, L.E. The rewarding effects of nicotine are enhanced in female rats in an estradiol-dependent manner. *Campus Office of Undergraduate Research Initiatives Summer Research Symposium*, 2014.
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123. O'Dell, L.E., Khroyan, T.V., Fuchs, R.A., and Neisewander, J.L. Systemic administration of SCH 23390 attenuates locomotion elicited by intra-accumbens cocaine. *Society for Neuroscience*, 1994.
124. Baker, D.A., O'Dell, L.E., Khroyan, T.V., and Neisewander, J.L. Differential effects of intra-accumbens sulphiride on cocaine-induced locomotion and conditioned place preference. *Society for Neuroscience*, 1994.
125. O'Dell, L.E., Khroyan, T.V., and Neisewander, J.L. Differential effects of intravenous and intraperitoneal routes of administration on the rewarding and stimulant properties of cocaine. *Society for Neuroscience*, 1993.
126. Morien, A., Wellman, P.J., O'Dell, L.E., and McMahon, L. Diurnal rhythm of PVN NE and food intake within the rat: A 24-hr microdialysis study. *International Behavioral Neuroscience Society*, 1993.

Invited Oral Presentations

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| 1/22/16 | Insulin regulation of enhanced nicotine intake in a rodent models of diabetes. *Panel chair. <i>Winter Conference on Brain Research</i> , Breckenridge, CO. |
| 11/12/2015 | The road less traveled: Science as a platform for promoting diversity. Plenary speaker at the Graduate Student Expo, UTEP, El Paso, TX. |
| 11/5/2015 | Neural mechanisms that promote nicotine use: Findings from animal |

- models. *Colloquium series in the Department of Neurosciences, School of Medicine at The University of New Mexico, Albuquerque, NM.*
- 10/22/2015 Neural mechanisms that promote tobacco use: Science as a platform for promoting diversity. *Colloquium series in the Department of Pharmacology, School of Medicine at The University of California Irvine, Irvine, CA.*
- 6/30/2015 Neurobiological consequences of nicotine exposure during adolescence: Mechanisms of short and long-term effects. Presented as part of a panel entitled, "Nicotine and alternative tobacco products in adolescence." *Neurobehavioral Teratology Society, Quebec, Canada.*
- 6/24/2015 Neuroscience and Drug Issues: A pre-conference workshop. *National Hispanic Science Network, San Antonio, Texas.*
- 6/26/2015 Animal models of adolescent tobacco use: Implications for the prevention, treatment, and long-term consequences of adolescent nicotine exposure. Presented as part of a panel entitled, "Addressing Multiple Health Risk Behaviors Among Latinos." *National Hispanic Science Network, San Antonio, Texas.*
- 6/5/2015 Neurobiological mechanisms that modulate the long-term effects of nicotine exposure during adolescence: Mechanisms and long-term effects. Presented as part of a panel entitled, "Neurobiological Consequences of Drug Exposure During Adolescence." *International Behavioral Neuroscience Society, British Columbia, Canada.*
- 2/28/2015 Enhanced rewarding effects of nicotine in a rodent model of diabetes. Presented as part of a panel entitled, "Current preclinical research on the relationship between nicotine, obesity, and metabolic disorders." *Society for Research on Nicotine and Tobacco, Philadelphia, Pennsylvania.*
- 2/26/2015 Sex differences in the neural mechanisms that promote stress and negative affective states produced by nicotine withdrawal. Presented as part of a panel entitled, "Moving beyond "Mice to Men:" Innovations in translational gender-sensitive tobacco research." *Society for Research on Nicotine and Tobacco, Philadelphia, Pennsylvania.*
- 1/28/2015 What's your gut reaction? The role of insulin in modulating enhanced nicotine intake in diabetic rats. *Panel co-chair. *Winter Conference on Brain Research, Big Sky, Montana.*
- 10/21/2014 Neurochemical mechanisms that modulate tobacco use vulnerability. *Colloquium series in the Department of Psychology at The University of Michigan, Ann Arbor, Michigan.*
- 8/11/2014 A role for insulin in drug abuse vulnerability. *NIDA Neuroscience Consortium Cutting Edge Symposium on Metabolic Pathways to Addiction, Bethesda, Maryland.*
- 6/6/2014 The road less traveled: Effective mentoring strategies for graduate trainees. *Panel co-Chair. *Interdisciplinary Research Training Institute Meeting, Miami, Florida.*
- 1/27/2014 Neuronal substrates that promote individual variation in compulsive behaviors. *Panel Chair. *Winter Conference on Brain Research, Steamboat Springs, Colorado.*

- 11/7/2013 Experiences with drugs during adolescence: Potential mechanism of adolescent vulnerability to addiction as revealed by animal models. *International Society for Developmental Psychobiology*, San Diego, California.
- 10/22/2013 Neurochemical mechanisms that modulate tobacco use vulnerability. *Colloquium series in the Duke Institute for Brain Sciences*, Durham, North Carolina.
- 10/10/2013 Using animal models to understand the neurobiology of addiction. *National Hispanic Science Network*, Washington, D.C. *Panel Chair.
- 9/23/2013 Age and sex differences in the mechanisms that mediate tobacco abuse. *Colloquium series in the Department of Psychology, University of Massachusetts Amherst*, Amherst, Massachusetts.
- 6/14/2013 Enhanced vulnerability to tobacco use in women: Evidence from animal models. *Charles Drew Medical School*, Los Angeles, California.
- 3/16/2013 Preclinical evidence of age and sex differences in the mechanisms that mediate enhanced vulnerability to tobacco abuse: Implications for the regulation of nicotine in cigarettes. *Society for Research on Nicotine and Tobacco*, Boston, Massachusetts.
- 1/16/2013 The role of age and sex differences in the mechanisms that mediate tobacco abuse. *Colloquium series in the Department of Psychology, Florida State University*, Tallahassee, Florida.
- 10/11/2012 Age and sex differences in the mechanisms that mediate tobacco abuse. *Colloquium series in the Department of Psychology, Texas A&M University*, College Station, Texas.
- 9/27/2012 The role of brain stress peptides in drug addiction and anxiety disorders: Sex differences in tobacco addiction. *National Hispanic Science Network*, San Diego, California.
- 6/11/2012 The effects of extended access to methamphetamine self-administration on dopamine systems. *College on Problems of Drug Dependence*, Palm Springs, California.
- 5/3/2012 Nico-teen: Age and sex differences in the mechanisms that mediate nicotine withdrawal. *Colloquium series in the Clinical Neuroscience Division at the Medical University of South Carolina*, Charleston, South Carolina.
- 3/23/2012 Nico-teen: Neural substrates that mediate enhanced vulnerability to tobacco abuse during adolescence. *Colloquium series in the Department of Neuropharmacology, The Scripps Research Institute*, La Jolla, California.
- 1/17/2012 Neural substrates of tobacco addiction in adolescence. *Colloquium series in the Department of Psychology, University of North Carolina*, Chapel Hill, North Carolina.
- 3/11/2011 NICOTEEN: Neural substrates of tobacco addiction in adolescence. *Colloquium series in the Department of Pharmacology and Toxicology, University of Texas Medical Branch*, Galveston, Texas.
- 3/21/2011 Neuronal substrates mediating tobacco abuse during adolescence. *Texas Tech University Health Sciences Center of Excellence in Neuroscience*. El Paso, Texas.

- 3/23/2011 The female nervous system: Differential responses to important stimuli. *Women's History Month UTEP Conference*, El Paso, Texas.
- 5/4/2011 Nico-teen: Neural substrates of tobacco abuse during adolescence. *Diversity in Drug Abuse Research Program Lecture at California State San Bernardino*. San Bernardino, California.
- 6/7/2011 Workshop on animal models of drug addiction. *Summer Research Training Institute on Drugs of Abuse*, Houston, Texas.
- 8/13/2010 Age differences in the rewarding and weight suppressant effects of nicotine. *Charles Drew Medical School Brain Research Day Meeting*. Los Angeles, California.
- 6/15/2010 Psychobiological factors that contribute to tobacco abuse during adolescence. *Panel Chair. *College on Problems of Drug Dependence*, Scottsdale, Arizona
- 3/7/2010 Psychobiological substrates that mediate age and sex differences to tobacco abuse. *Behavior, Biology and Chemistry: Translational Research in Addiction*, San Antonio, Texas.
- 2/19/2010 Mechanisms of Tobacco Abuse. *Medical Center of the Americas Research Advancement Symposia, Texas Tech Paul Foster School of Medicine*. El Paso, Texas.
- 1/25/2010 Health Disparity Research on Tobacco Abuse at UTEP. *Meeting with State Representative Daniel Branch, Chair of the Texas Higher Education Committee*. El Paso, Texas.
- 9/03/2009 Mechanisms of vulnerability to nicotine addiction. *Meeting of the Commission to End Health Care Disparities and Grand Opening of the Biosciences Research Building at UTEP*. El Paso, Texas.
- 7/31/2009 The rewarding effects of nicotine are enhanced in an animal model of Type 1 diabetes. *Charles Drew Medical School Brain Research Day*. Los Angeles, California.
- 1/30/2009 Nico-teen: Psychobiological substrates that mediate tobacco use during adolescence. *Paul L. Foster School of Medicine, Texas Tech University*. El Paso, Texas.
- 1/09/2009 How does nicotine work in the brain? *El Paso Consortium on Tobacco Cessation Meeting*. El Paso, Texas.
- 5/20/2008 From trainee to independent investigator. *The National Institute on Drug Abuse Meeting on Research Development and Diversity Programs*. Silver Spring, Maryland.
- 3/28/2008 Developmental and sex differences in the expression of key molecular targets during nicotine withdrawal. *Society for Research on Nicotine and Tobacco*. Portland, Oregon.
- 10/16/2007 Developmental and sex differences to nicotine withdrawal: A behavioral and neurochemical approach to studying nicotine addiction. *Colloquium series in the Department of Physiology, Louisiana State University*. New Orleans, Louisiana.
- 6/25/2007 Molecular targets of nicotine withdrawal are differentially expressed in adolescent and adult rats. *College on Problems of Drug Dependence*, Quebec City, Canada.

- 5/8/2007 Oh Rats! Implications for adolescent tobacco use. *American Cancer Society and The National Institute on Drug Abuse Meeting on The Future of Youth Tobacco Cessation Research*. Rockville, Maryland.
- 4/13/2007 The neural basis of nicotine addiction. *El Paso Consortium on Tobacco Cessation Meeting*. El Paso, Texas.
- 3/16/2007 Nico-teen: Developmental influences on the rewarding and aversive properties of nicotine in rats. *Colloquium series in the Department of Pharmacology and Neuroscience at Texas Tech University Health Science Center*. Lubbock, Texas.
- 2/22/2007 A translational approach to understanding gender, adolescence, and vulnerability to nicotine addiction. *Society for Research on Nicotine and Tobacco*. Austin, Texas.
- 9/16/2006 Differential sensitivity to the rewarding and aversive effects of nicotine during adolescence. *National Hispanic Science Network on Drug Abuse*. Phoenix, Arizona.
- 6/18/2006 Nicotine withdrawal is diminished in adolescent versus adult rats. *College on Problems of Drug Dependence*. Scottsdale, Arizona.
- 9/06/2005 Cocaine on the Brain: Serotonergic modulation of dopamine transmission. *Department of Pharmacology and Toxicology, The University of Texas at Austin*. Austin, Texas.
- 10/18/2004 The psychopharmacology of nicotine addiction. *American Association for Cancer Research*. Seattle, Washington.
- 2/21/2004 Nicotine dependence in adult and adolescent rats. *Society for Research on Nicotine and Tobacco*. Scottsdale, Arizona.
- 3/20/2003 Psychoneuroendocrine networks involved in ethanol-induced synaptic and behavioral alterations. *International Society of Psychoneuroendocrinology*. Pisa, Italy.
- 11/11/2002 Cocaine on the brain: Serotonergic modulation of dopamine transmission. *Department of Anatomy and Neurobiology Lecture Series, University of Kentucky*, Lexington, Kentucky.
- 6/9/2002 Characterization of nicotine intake, extinction, reinstatement and precipitated withdrawal using extended access to nicotine self-administration. *College on Problems of Drug Dependence*, Quebec City, Canada.
- 12/1/2001 The effects of a neuroactive steroid on ethanol self-administration in dependent and nondependent rats. *NIAAA Training Program Meeting entitled, Alcoholism: Toward an Integration of Basic and Clinical Research Training for the 21st Century*, Indianapolis, Indiana.
- 11/14/2001 Evidence for a functional upregulation of 5-HT_{1B} receptors in the VTA following extended access to cocaine self-administration. *Society for Neuroscience*, San Diego, California.
- 4/10/2001 Cocaine on the brain: Serotonergic modulation of dopamine neurotransmission. *Seminar Series at The Scripps Research Institute, Department of Neuropharmacology*, La Jolla, California.

- 6/17/1999 Molecular mechanisms mediating genetic sensitivity to cocaine-Induced convulsions. *College on Problems of Drug Dependence*, Acapulco, Mexico.
- 6/15/1998 Cocaine-induced convulsions: Serotonin neurotransmission modulates genetic sensitivity. *College on Problems of Drug Dependence*, Scottsdale, Arizona.
- 4/1/1997 The role of the amygdala in amphetamine conditioned place preference. *Seminar Series at the University of Arizona Regional Society for Neuroscience*, Tucson, Arizona.
- 1/17/1997 Investigation of the neural mechanisms of drug-seeking behavior in rats. *Seminar series in the Department of Pharmacology and Toxicology, University of Texas Medical Branch*, Galveston, Texas.

Teaching Experience

- 2005-present Faculty Member, Department of Psychology, UTEP, courses taught include: *Drugs and Behavior, Psychobiology, Animal Learning and Behavior*, and *Neuroplasticity of Stress, Learning and Addiction, Ethics in Scientific Research and Professional Development, Neuroendocrinology*, and *Grant Writing*. The last six courses are offered at the graduate level.
- 2011-2012 Lecturer, The Institute for Brain Potential. Full-day seminars in 2011 in El Paso, Corpus Christi, McAllen and Victoria Texas and in 2012 in Santa Fe and Albuquerque New Mexico. The title of the lecture series is, “*How The Brain Forms New Habits: Why Willpower Is Not Enough.*”
- 2001-2004 Instructor, Department of Psychology, University of California at San Diego. Courses co-taught with Dr. George Koob include: *Impulse Control Disorders, Drugs Addiction and Mental Disorders*, and *Drugs and Behavior*.
- 1999-2003 Faculty Member, University of Phoenix, San Diego Branch
Extensive training in facilitative teaching strategies. Courses taught include: *Life Science, Introduction to Psychology, Critical Thinking and Decision Making, and Dependency and Addictions*.
- 1992-1993 Teaching Assistant, Department of Psychology, Arizona State University
Taught *Research Methodology* and my responsibilities included lecturing and evaluating student experiments, exams, and written reports.

Mentoring Activities

Faculty mentees:

1. Dr. Oralia Loza- Assistant Professor, College of Health Sciences, UTEP (1-1-2011 to present). Mentor through the Collaborative Faculty Mentoring Program.
2. Dr. Nick Gilpin- Assistant Professor, Department of Physiology, Louisiana State University (11-1-2011 to present). External mentor on his tenure and promotion committee. Dr. Gilpin was awarded tenure.

3. Dr. Sergio Iñiguez Associate Professor, Department of Psychology, California State San Bernardino (1-12-2015 to present). External faculty mentor as part of the Early Career Institute in Neuroscience. Dr. Iñiguez is a faculty member in Department of Psychology at UTEP.

Post-doctoral trainees:

1. Dr. James Orfila- Post-Doctoral Mentor (6-2008 to 1-2012). Funded through the Minority Supplement in Diversity program at NIDA. Dr. Orfila is a Research Assistant Professor at The University of Colorado Medical School.
2. Dr. Luis Carcoba- Post-Doctoral Mentor (10-2012 to present). In May 2015, Dr. Carcoba was promoted to Research Assistant Professor at UTEP.
3. Dr. Annie Whitaker-External Mentor in a National Hispanic Science Network training program (7-2014 to present). Dr. Whitaker is a post-doctoral fellow in the Department of Physiology at Louisiana State University.

Graduate student committees:

UTEP Psychology Department

1. Dr. Luis Natividad-Primary Mentor (1-2005 to 5-2012). Master's thesis title, "Characterization of the behavioral and neurochemical effects of nicotine withdrawal in adolescent and adult rats" was completed on 4-30-09. Dissertation title, "Examination of the neurochemical mechanisms that mediate nicotine withdrawal in adolescent and adult rats" was completed on 4-30-12. Awarded the Diversity in Neuroscience Fellowship from the American Psychological Association and recipient of a NIH Ruth Kirschstein Pre-Doctoral Fellowship. Awarded the National Hispanic Science Network Outstanding Student Award and the Diana Natalicio Graduate School Fellowship. Dr. Natividad is a post-doctoral trainee at the Scripps Research Institute.
2. Dr. Oscar Torres- Primary Mentor (6-2005 to 4-2013). Master's thesis title, "Developmental differences to the rewarding effects of nicotine" was completed on 11-1-07. Dissertation title, "Characterization of the behavioral, biochemical, and molecular indices of stress produced by nicotine exposure and withdrawal in male and female rats" was completed on 12-7-2012. Awarded the Dodson Graduate School Fellowship and the Outstanding Dissertation Thesis in Psychology. Dr. Torres was a post-doctoral fellow at NIDA and he is currently a tenure-track professor at Mesa Community College in San Diego, CA.
3. Alice Hernandez- Master's Thesis Committee Member (6-2014 to 5-2015). Thesis title, "Electrical stimulation evokes exocytosis-like dopamine release and rotational behavior in vivo" was successfully defended on 5-13-2015.
4. Mabel Terminel- Master's Thesis Committee Member (7-2014 to 6-2015). Thesis title, "Dopamine regulation of disengagement at the basal ganglia circuitry" was proposed on 12-10-2014 and successfully defended on 6-11-2015.

5. Zachary Steele- Primary mentor (8-2013 to 8-2014). Zachary left our program to pursue his MBA degree at St. Edwards University.
6. Mayra Flores- Doctoral Committee Member (12-2012 to present). Thesis title, "Behavioral markers of chronic low-level lead exposure in young mice" was proposed on 5-14-2013.
7. Joseph Pipkin- Primary Mentor (8-2012 to present). Dissertation proposal title, "Examination of the mechanisms that promote nicotine reward in diabetic animals" was presented on 12-10-14.
8. Rodolfo Flores- Primary Mentor (8-2014 to present).
9. Bryan Cruz- Primary Mentor (8-2015 to present).
10. Kevin Uribe- Primary Mentor (8-2015 to present).

UTEP Biological Sciences Department

1. Oscar Sanchez- Master's Thesis Committee Chair, Thesis title, "Differential effects of in utero exposure to methanesulfonyl fluoride (MSF) on two different spatial memory tasks" was completed on 5-28-2005.
2. Jose Lozano- Master's Thesis Committee Member, Thesis title, "Neocortical proteome comparison of socially conditioned rats with various odors" was completed on 8-2-2005.
3. Shuwen Liang- Dissertation Committee Member, Thesis title, "Effect of diet and sex on changes in gene expression and behavioral responses to chronic stress" was completed on 4-9-2007.
4. Samantha Chagra- Master's Thesis Committee Member, Thesis title, "Effects of chronic stress on neuronal pathways involved in feeding" was completed on 12-4-2007.
5. Christine Delgado- Master's Thesis Committee Member, Thesis title, "The effect of exogenous leptin on murine dendritic cells' morphology and function" was completed on 8-3-2009.
6. Lorena De Santos- Master's Thesis Committee Member, Thesis title, "Altered leptin signaling on dendritic cells as a potential mechanism for cancer immunotherapy" was completed on 9-18-2010.
7. Jaidee Zavala- Dissertation Committee Member, Dissertation title, "Gender differences in the processing of acute and chronic stress" was completed on 4-22-2011.
8. Joe Luevano- Master's Thesis Committee Member, Thesis title, "The role of stress in escalation of methamphetamine self-administration" was completed on 5-11-2012.
9. Yenni Garcia- Dissertation Committee Member, Dissertation title, "A regulatory role for SGTa in the maturation and activation of steroid hormone receptors" was completed on 11-18-2011.
10. Susana Barrera- Dissertation Defense Committee Member, Thesis proposal title, "Regulation of the glycine transporter1 by PKC-alpha dependent ubiquitination" was completed on 11-1-2013.
11. Jorge Sierra- Dissertation Defense Committee Member, Dissertation title, "Gbg-microtubule mediated mechanism of neuronal differentiation" was completed on 2-26-2014.

12. Sarah Chenausky-Master's Thesis Committee Member, Thesis title, "Structural and functional organization of hindbrain regions that receive vagal sensory input and that respond to glycemic challenge" was proposed on 6-19-2014 and successfully defended on 12-8-2014.
13. Anais Martinez- Dissertation Committee Member, Dissertation proposal title, Chemoarchitecture and connections of the arcuate nucleus of the hypothalamus in the adult male rat" was proposed on 12-8-2015.
14. Chris Darcy- Dissertation Defense Committee Co-Chair, Dissertation title, "Stress modulation of methamphetamine escalation in rats" was successfully defended on 7-27-2015.

The Scripps Research Institute

1. Jenny Treweek- Dissertation Defense Committee Member, Dissertation title, "The effects of anti-addiction vaccines on methamphetamine self-administration in rats" was completed on 2-11-2011.
2. Amira Moreno- Dissertation Defense Committee Member, Dissertation title, "Immunopharmacotherapy: Towards the creation of effective vaccines against drugs of abuse" was completed on 3-22-2012.

Texas Tech University

1. Ismael Segura- Dissertation Defense Committee Member, Proposal title, "The role of alpha-synuclein on inhibition of histone deacetylases" was presented on 6-30-2014.

Interdisciplinary Research Training Institute (IRTI)

1. Erika Perez, Ph.D.- External Mentor in the IRTI training program (2012-2014). Dr. Perez is a post-doctoral trainee at the University of Pennsylvania. Dr. Perez and I organized a panel on effective mentoring strategies at the culmination of the training institute on 6-7-2014.

University of Texas Medical Branch

1. Elizabeth Crofton- External Dissertation Committee Member, Proposal title, "Cocaine addiction: Role of glycogen synthase kinase 3 beta" was presented on 4-27-2015.

Undergraduate laboratory members:

1. Hugo Tejada, Ph.D. (5-2006 to 9-2008) Career Opportunities in Research Fellow and was awarded a Pre-doctoral Ford Foundation Fellow to conduct graduate studies at UTEP. Also awarded a Faculty Undergraduate Neuroscience Travel Award to from the Society for Neuroscience in 2007. Hugo completed his honors thesis in my laboratory. Hugo was awarded

his Ph.D. in Neuroscience from The University of Maryland in September 2013. He is now a post-doctoral fellow at NIDA.

2. Sofía Blanca Beas (5-2007 to 8-2009) Minority Access to Research Careers Fellow and was awarded a NIDA training fellowship in 2009. She completed her Honors thesis in my laboratory and is currently a graduate student at University of Florida in their Neuroscience program.

3. Isabelle Villalobos (8-2006 to 4-2007) Undergraduate student volunteer.

4. Cecilia Brooke Chokla (6-2007-9-2007) Undergraduate student volunteer.

5. Paloma Alvarez (2-2007 to 8-2007) Undergraduate student volunteer.

6. Francisco Roman (3-2008 to 8-2009) Undergraduate Research Technician who was originally part of the NIDA summer training program. Paco completed his Pharmacy degree from The University of Texas at Austin in 5-2013.

7. Evelyn Escalante (4-2009 to 3-2011) Undergraduate student that worked in my laboratory as part of the Biology Undergraduate Research Scholars Program.

8. Ivan Torres (7-2009 to 8-2012) Undergraduate student volunteer and research technician. Ivan is currently in the Nursing program at UTEP.

9. Vanessa Valenzuela (6-2010 to 1-2013) Undergraduate student volunteer who was a part of the Bridges to the Baccalaureate Program.

10. Jonathan Jackson (8-2010 to 8-2012) Undergraduate student who was part of the Minority Access to Research Careers Program.

11. Adrian Muniz (6-2008 to 8-2012) Undergraduate student volunteer who began working in the laboratory as part of the Bridges Program and then as part of the Biology Undergraduate Research Scholar program. Adrian is a medical student at UT Southwestern.

12. Julio Chaparro (5-2012 to 7-2012) Undergraduate student who worked in my laboratory as part of the summer training program in Neuroscience.

13. Nicole Kimura (5-2012 to 7-2012) Undergraduate student who worked in my laboratory as part of our summer training program in Neuroscience. Nicole is currently a graduate student in the Department of Psychology at UTEP.

14. Jesus Jurado (1-2012 to 9-2013) Undergraduate student volunteer who was part of the RISE program in Biological Sciences. Received a Minority Undergraduate Internship Award from the American Diabetes Association (2-2013).

15. Arturo Orona (1-2006 to present) Graduate student volunteer.

16. Patrick Ferree (1-2013 to 8-2014) Research Technician. Patrick is currently a graduate student in the Molecular and Cell Biology Department at Duke University.

17. Rodolfo Flores (6-2013 to 8-2013) Undergraduate student who was a part of our summer training program in neuroscience. He won Best Poster award at the final poster symposium of the summer programs. Rodolfo is currently a graduate student in my laboratory.

18. Christian Tejeda (6-2013 to present) Research Technician. Chris began working in my laboratory as an undergraduate student as part of our summer training program in Neuroscience. Chris was a NIDA summer fellow at UTEP in 2015.

19. Cecilia Hinojosa (6-2013 to present) Research Technician. Ceci began as an undergraduate student as a NIDA summer fellow. In Fall 2013, she was awarded an Undergraduate Fellowship through the UTEP College of Undergraduate Research Initiatives (COURI). She won two best poster awards at the UTEP COURI symposium and the VIDA conference.

20. Sarah Woldermariam (6-2014 to 8-2014) Undergraduate student who was a part of our summer training program in neuroscience. Sarah is an undergraduate student at University of Massachusetts Amherst.

21. Emily Withrow (6-2014 to 8-2014) Undergraduate student who was part of our summer training program in neuroscience. Emily is an undergraduate student at St. Edwards University.
22. Ibette Valle (6-2013 to 8-2014) Undergraduate student who began working in my laboratory as a NIDA summer fellow.
23. Adriana Perez (6-2014 to present) Undergraduate student volunteer. She completed her undergraduate Honor's Thesis in my laboratory.
24. Victoria Edwards (6-2014 to present) Undergraduate student volunteer. She was awarded a NIDA fellowship in 2015 at University of North Carolina in the Department of Psychology.
25. Tiahna Ontiveros (1-2015 to present) Undergraduate student volunteer. She was awarded a NIDA summer training fellowship in 2015 at CUNY in their Department of Neuroscience.
26. Melissa Ibarra (6-2015 to present) Undergraduate student volunteer.
27. Rosa Garcia-Hernandez (6-2015 to 8-2015) Undergraduate student who was a part of our summer training program in neuroscience. Rosa is an undergraduate at University of Michigan.
28. Keegan Loveless (6-2015 to 8-2015) Undergraduate student who was a part of our summer training program in neuroscience. Keegan is an undergraduate at Virginia Commonwealth University.
29. Robert Martinez (6-2015 to present) Undergraduate student volunteer.

Professional Affiliations

College on Problems of Drug Dependence Member (Membership Committee 2014)
 International Behavioral Neuroscience Society Member
 International Drug Abuse Research Society Member
 International Society for Biomedical Research on Alcoholism Member
 National Hispanic Science Network on Drug Abuse (Early Career Panel Chair 2010-2011)
 Research Society on Alcoholism Member
 Society for Neuroscience Member
 Rio Grande Society for Neuroscience Member (Local Chapter Secretary 2014)
 Society for Research on Nicotine and Tobacco Member

Grant Review Committees

10-1-16	Permanent member for Scientific Review study section, <i>Neurobiology of Motivated Behavior (NMB)</i> .
2-18-16	Reviewer for the <i>Tobacco-Related Disease Research Program (TRDRP)</i> of The State of California.
6-11-15	Reviewer for the Center for Scientific Review special emphasis panel, <i>Summer Research Experience Programs (ZNS1 SRB-E05)</i> .
10-9-2014	Reviewer for the Center for Scientific Review study section, <i>Neurobiology of Motivated Behavior (NMB)</i> .
6-25-2014	Reviewer for the Center for Scientific Review panel, <i>Fellowships: Behavioral Neuroscience (ZRG F02A-J20L)</i> .
6-4-2014 and 11-17-2013	Reviewer for the Center for Scientific Review panel, <i>Tobacco Control Regulatory Research (PAR 12-267)</i> .
5-1-2013	Reviewer for the <i>Arizona Institute for Mental Health Research Board</i> .

1-15-2012	Reviewer for Center for Scientific Review special emphasis panel, <i>Specialized Centers of Research on Sex Differences</i> .
2-1-2009 to 6-1-2013	Permanent member of the Center for Scientific Review study section, <i>Biobehavioral Regulation of Learning and Ethology (BRLE)</i> .
7-1-2010	Reviewer on the Center for Scientific Review special emphasis panel, <i>Risk, Prevention and Health Behavior</i> .
3-24-2009	Reviewer on the Center for Scientific Review special emphasis panel, <i>Motor Function, Speech Rehabilitation</i> .
9-20-2008	Reviewer for the Department of Defense American Institute of Biological Sciences Peer Review Medical Research Program panel, <i>Alcoholism, Drug Abuse and Social Work</i> .
12-8-2008	Reviewer for the Canadian Tobacco Control Research Initiative.

Service Activities

University Service:

2015	Advisory Board Member of the UTEP College of Undergraduate Research Initiatives (COURI) Program.
2015	Course Evaluation Coordinator for the Department of Psychology
2014	Behavioral Neuroscience Faculty Search Committee Co-Chair for the Department of Psychology
2013-2014	College of Liberal Arts Tenure and Promotion Committee Member
2013	Attending Veterinarian Search Committee Member
2012-present	Institutional Animal Care and Use Committee Member
2013-present	Animal Research Council Member
2010-2013	Editor of the Psychology Department Newsletter
2013-present	Psychology Department Facebook page Manager
2011-2012	Performance Annual Review Form (PARF) Committee Member; Chair of the committee in 2012
2010	Neuroscience Faculty Search Committee Member for the Department of Biological Sciences
2009-present	Graduate Program Committee
2009 and 2010	Graduate School Outstanding Dissertation Selection Committee Member
2007	Neuroscience Faculty Search Committee Member for Department for the Department of Biological Sciences
2007	Departmental Chair Search Committee Member for the Department of Psychology
2006	Dean of College of Science Search Committee Member

External Service:

2015-present	Scientific Advisory Board Member for the XDA (Experimental Design Assistant) project sponsored by NIH/NIDA.
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2015-present	Committee Member of the Endowment Fund for Racial and Ethnic Diversity
2014-present	<i>Rio Grande Society for Neuroscience</i> Chapter Member; Secretary in 2014
2008-present	Executive Committee of the NIH-funded Interdisciplinary Research Training Institute (IRTI). Responsibilities include consultation regarding the biomedical component of the curriculum and serving as a faculty member and mentor for selective fellows in the program.
2010-2011	Chair of the Early Career Leadership Committee and the Steering Committee of the <i>National Hispanic Science Network</i> . Responsibilities include managing committee goals, monthly conference calls, and planning various activities at the annual meeting such as the early career oral panel session.
2010 to 2011	Steering Committee Member for <i>The National Hispanic Science Network</i> on Drug Abuse. Responsibilities included choosing the meeting speakers, reviewing abstracts, attending organizational meetings.
2009 and 2012	Co-chair of the annual meeting for <i>The National Hispanic Science Network</i> on Drug Abuse. Responsibilities included coordinating all major activities associated with meeting including choosing panel speakers and the topics of the conference.
2007 and 2008	Program Committee Member for <i>The Society for Research on Nicotine and Tobacco</i> . Responsibilities included choosing the meeting speakers, reviewing abstracts and other planning activities.

Professional References

Dr. George F. Koob
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