

# Laura E. O'Dell, Ph. D

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## EDUCATION

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

## PROFESSIONAL APPOINTMENTS

**2016-present** Professor, UTEP, Department of Psychology, El Paso, TX  
**2010-2015** Associate Professor, UTEP, Department of Psychology, El Paso, TX  
**2005-2010** Assistant Professor, UTEP, Department of Psychology, El Paso, TX  
**2000-2004** Staff Scientist, The Scripps Research Institute, Department of Neuropharmacology, La Jolla, CA  
**1999-2000** Post-Doctorate, The Scripps Research Institute, Department of Neuropharmacology, La Jolla, CA  
**1997-1999** Post-Doctorate, Amethyst Technologies, Behavioral Genetics, Scottsdale, AZ

## 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.

## HONORS

**2017** STEM Research Exemplar given by the University of Washington Research Exemplar Project  
**2016** National Award of Excellence in Mentoring given by the National Hispanic Science Network on Drugs of Abuse  
**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

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by the UTEP Office of Research and Sponsored Projects

## FUNDED GRANTS

### Current Support

- 2016-2020**      **Vulnerability Issues In Drug Abuse: Career And Research Transdisciplinary Training Program (VIDA:CARTT)**  
Role: Primary Investigator; Agency: NIDA; Type Contract (HHSN271201600057C); Total Costs: \$908,108; Period: 9/30/16 to 9/30/20; Goals: This purpose of this contract is to provide NIDA with a Career and Research Development Program for underrepresented scholars conducting basic and/or translational biomedical substance abuse research.
- 2016-2018**      **Faculty Science and Technology Acquisition and Retention (STARs) Program**  
Role: Participating Investigator; Agency: University of Texas System; Type: Retention Program; Total Costs: \$500,000; Period: FY 2016-2018; Goals: This award is intended to provide resources to support the continued growth of my research program at UTEP.
- 2015-2018**      **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.
- 2014-2019**      **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.
- 2017-2021**      **Research Excellence for Undergraduates (REU) Summer Mentoring And Research Training: Methods In Neuroscience of Drug-Abuse (SMART MIND)**  
Role: Primary Investigator; Agency: NIDA; Type: R25 (DA033613); Total costs: \$517,055; Period: 5/1/17-4/30/22; 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.

### Previous Support

- 2012-2016**      **Research Excellence for Undergraduates (REU) Summer Mentoring And Research Training: Methods In Neuroscience of Drug-Abuse (SMART MIND)**  
Role: Primary Investigator; Agency: 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.
- 2011-2016**      **Diversity Institution Drug Abuse Research Program: Vulnerability Issues in Drug Abuse (VIDA)**

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Role: Co-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 to drug abuse 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 this sub-project.

**2015- 2016**

### **Drugs of Abuse and Remodeling of the Neuronal Cytoskeleton**

Role: Co-Investigator; Agency: NIH; Type: Pilot project (G12MD007592); 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.

**2012-2015**

### **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.

**2007-2014**

### **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 for 2 years via a Presidential Early Career Award for Scientists and Engineers award.

**2012**

### **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.

**2015-2006**

### **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 on a summer research project examining the neural mechanisms of developmental sensitivity to nicotine dependence.

**2003-2006**

### **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.

**2008-2011**

### **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.

- 2011**                      **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 participating investigators initiated a major collaborative effort that involved the purchase of equipment to integrated strengths in the neural basis of diabetes and addiction.
- 2010-2011**                **Modification of Genes and Behavior by Stress; Enhanced Vulnerability to Addiction**  
Role: Co-Investigator; Agency: NIH; Type: Pilot project (G12RR008124); 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.
- 1993-1996**                **Minority Neuroscience Training Program**  
Role: Graduate Student 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.

## PUBLICATIONS

1. Pipkin, J.A., Cruz, B.A., Hinojosa, C.A., Flores, R.J., Carcoba, L.M., Ibarra, M., Francis, W., Nazarian, A., and **O'Dell, L.E.** (2017). Both nicotine reward and withdrawal are enhanced in a rodent model of diabetes. *Psychopharmacology*, in press. [PMID: 28342091](#)
2. Gosselink, K.L., D'Arcy, and **O'Dell, L.E.** (2016). Intermittent vibration increases methamphetamine intake in rats. *Journal of Alcoholism, Drug Abuse and Substance Dependence*, 2: 5-8.
3. Carcoba, L.M., Torres, O.V., Pipkin, J.A., Ontiveros, T., and **O'Dell, L.E.** (2016). Insight into the potential factors that promote tobacco use in vulnerable populations. Invited review for *Current Addiction Reports*, 3: 27-36.
4. Flores, R.J., Pipkin, J.A., Uribe, K.P., Perez, A., and **O'Dell, L.E.** (2016). Estradiol promotes the rewarding effects of nicotine in female rats. *Behavioural Brain Research*, 307: 258-263. [PMID: 27059334](#)
5. 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. [PMID: 26367473](#)
6. **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. [PMID: 26092247](#)
7. 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. [PMID: 25912856](#)
8. 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. [PMCID: PMC4432401](#)
9. **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. [PMID: 23834715](#)
10. 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. [PMID: 24774962](#)
11. 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. [PMCID: PMC4125457](#)
  12. 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. [PMID: 23909760](#)
  13. **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. [PMID: 23684991](#)
  14. 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. [PMID: 24120402](#)
  15. 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. [PMID: 23730292](#)
  16. 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. [PMCID: PMC3472122](#)
  17. 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. [PMID: 22659976](#)
  18. 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. [PMCID: PMC3444240](#)
  19. **O'Dell, L.E.** (2011). Nico-teen: Neural substrates that mediate adolescent tobacco abuse. *Neuropsychopharmacology, Hot Topics issue*, 36:356-357. [PMCID: PMC3055509](#)
  20. 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. [PMID: 19903933](#)
  21. 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. [PMID: 19771590](#)
  22. Abdallah, L., Bonasera, S.J., Hopf, W., **O'Dell, L.E.**, Giorgetti, M., Jongsma, M., Carra, S., Esposito, E., Parsons, L.H., Bonci, A., and Tecott, L.H. (2009). Impact of 5-HT<sub>2C</sub> receptor null mutation on physiology and behavior associated with nigrostriatal dopamine pathway function. *The Journal of Neuroscience*, 29:8156-8165. [PMCID: PMC3077993](#)
  23. 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. [PMID: 19629450](#)
  24. 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. [PMID: 19403807](#)
  25. **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. [PMCID: PMC2646496](#)
  26. **O'Dell, L.E.** (2009). A psychobiological framework of the substrates that mediate nicotine use during adolescence. *Neuropharmacology*, 56:263-278. [PMID: 18723034](#)

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28. 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. [PMID: 18571223](#)
29. 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. [PMCID: PMC2493536](#)
30. 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. [PMCID: PMC2769571](#)
31. George, O., Ghazizadeh 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. [PMID: 17921249](#)
32. 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.
33. 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. [PMCID: PMC2749684](#)
34. **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. [PMCID: PMC2846728](#)
35. **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. [PMID: 17292952](#)
36. **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. [PMID: 17050784](#)
37. **O'Dell, L.E.**, Manzardo, A., Polis, I., Stouffer, D.G., and Parsons L.H. (2006). Biphasic alterations in serotonin<sub>1B</sub> (5-HT<sub>1B</sub>) receptor function during abstinence from extended cocaine self-administration. *Journal of Neurochemistry*, 99:1363-1376. [PMID: 17074068](#)
38. 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. [PMID: 17079660](#)
39. 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. [PMID: 16794567](#)
40. Chen, S.A., **O'Dell, L.E.**, Lerner, K., Hofer, 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. [PMID: 16452993](#)
41. **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.
42. **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. [PMID: 15950269](#)
43. 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. [PMID: 15714042](#)
44. **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. [PMID: 15547454](#)
  45. **O'Dell, L.E.** and Parsons, L.H. (2004). Serotonin<sub>1B</sub> 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.
  46. **O'Dell, L.E.**, Bruijnzeel, A.W., Ghozland, 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. [PMID: 15251887](#)
  47. 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. [PMID: 15019424](#)
  48. **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. [PMID: 14744609](#)
  49. 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. [PMID: 12544003](#)
  50. 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.
  51. **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. [PMID: 10773209](#)
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  55. **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. [PMID: 10327428](#)
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- mesolimbic and mesostriatal pathways of mutant mice lacking 5-HT<sub>2C</sub> receptors. *College on Problems of Drug Dependence*, 2001.
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  125. O'Dell, L.E., Stouffer, D., and Parsons, L.H. The role of 5-HT<sub>1B</sub> receptors in the VTA in mediating cocaine-induced elevations of NAcc DA levels. *Society for Neuroscience*, 2000.
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  141. Baker, D.A., O'Dell, L.E., Khroyan, T.V., and Neisewander, J.L. Differential effects of intra-accumbens sulpiride on cocaine-induced locomotion and conditioned place preference. *Society for Neuroscience*, 1994.
  142. 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.
  143. Morien, A., Wellman, P.J., O'Dell, L.E., and McMahon, L. Diurnal rhythm of PVN NE and food intake

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within the rat: A 24-hr microdialysis study. *International Behavioral Neuroscience Society*, 1993.

### INVITED ORAL PRESENTATIONS

- 5/8/17** Career mentoring and the application of animal models in drug abuse. *Interdisciplinary Research Training Institute Meeting*, Pasedena, CA.
- 5/19/17** Neural mechanisms that promote tobacco use in vulnerable populations: Findings from animal models. *Society for Neuroscience Neuroscience Scholars Program*, Webinar series.
- 5/23/17** Tobacco, use in vulnerable populations. Research Talk at the Marine Biological Laboratories SPINES Program, Woodshole, MA.
- 5/5/2017** From diversity supplement trainee to successful research investigator. *Meeting of the NIDA Diversity Supplement Trainees*, Bethesda, MD.
- 4/6/2017** The road less traveled: Science as a platform for promoting diversity. *Plenary Speaker at the UTEP Research Forum*, El Paso, TX.
- 1/29/2017** A Larry Parsons memorial panel: Impact and legacy in the science of addiction. *Winter Conference on Brain Research*, Big Sky, MO.
- 7/16/2016** Neural mechanisms that promote tobacco use in vulnerable populations: Findings from animal models. *Colloquium series in the Department of Pharmacology, University of Buffalo*, Buffalo, NY.
- 6/8/2016** Working in interdisciplinary research teams: Socio-neuroscience horizons in drug abuse research. *Interdisciplinary Research Training Institute Meeting*, Los Angeles, CA.
- 4/14/2016** Neural mechanisms that promote tobacco use in females. *Meeting of the NIDA Women and Sex/Gender Differences Research Group (WBRG)*, Bethesda, MD.
- 4/15/2016** Science as a platform to promote diversity. *Meeting of the NIDA Diversity Supplement Trainees*, Bethesda, MD.
- 2/23/2016** Neural mechanisms that promote nicotine use in vulnerable populations. *Colloquium series in the Department of Neurobiology and Anatomical Sciences, University of Mississippi Medical Center*, Jackson, MI.
- 1/22/2016** Insulin regulation of enhanced nicotine intake in a rodent models of diabetes. \*Panel chair. *Winter Conference on Brain Research*, 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

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- 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,

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- 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 Americans 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*.

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- 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 21<sup>st</sup> Century*, Indianapolis, Indiana.
- 11/14/2001** Evidence for a functional upregulation of 5-HT<sub>1B</sub> 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*

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*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 6 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 EXPERIENCE

#### Faculty Mentees

1. **Dr. Oralía Loza** - Assistant Professor, College of Health Sciences, UTEP (1-1-2011 to present). Mentor through the Collaborative Faculty Mentoring Program. Dr. Loza was awarded tenure.
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.
4. **Dr. Akiko Shimamoto** - Assistant Professor, Department of Neuroscience and Pharmacology, Meharry Medical College (3-8-2016 to present). External faculty mentor for tenure and promotion committee.
5. **Dr. Fatima Alshbool** - Assistant Professor, Pharmaceutical Sciences, UTEP (3-17-17 to present). External faculty mentor for tenure and promotion committee.

#### Post-doctoral Trainees:

1. **Dr. James Orfila** - Post-Doctoral Primary 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. Annie Whitaker** - External Mentor in a National Hispanic Science Network training program (7-2014 to 2016). Dr. Whitaker was a post-doctoral fellow in the Department of Physiology at Louisiana State University. Dr. Whitaker is a high school biology teacher.
3. **Dr. Luis Carcoba** - Post-Doctoral Primary Mentor (10-2012 to 5-2015). Dr. Carcoba is currently a

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Research Assistant Professor in the Psychology Department at UTEP.

4. **Dr. Victor Correa** - Post-Doctoral Primary Mentor (10-2015 to present).
5. **Dr. Felix Matos** - Post-Doctoral Primary Mentor in the BUILDing Scholars Program (6-2017 to present).

### 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, M.A.** - 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 completed on 5-13-2015.
4. **Mabel Terminel, M.A.** - 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 completed 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. **Dr. Joseph Pipkin**, - Primary Mentor (8-2012 to 12-2016). Dissertation title, "Examination of the rewarding effects of nicotine and the negative effects of withdrawal in a rodent model of diabetes" was completed on 11-29-16. Dr. Pipkin is an Instructor at Imperial Valley College in Imperial Valley, CA.
7. **Rodolfo Flores, M.A.** - Primary Mentor (8-2014 to present). Master's Thesis title, "*Characterization of sex differences in the reinforcing effects of nicotine*" was successfully defended on 3-23-2017.
8. **Bryan Cruz** - Primary Mentor (8-2015 to present).
9. **Kevin Uribe, M.A.** - Primary Mentor (8-2015 to present).
10. **Jeremiah Ramos, M.A.** - Master's Thesis Committee Member (8-2016 to 4-2017). Thesis title, "The impact of dopaminergic lesions on cognition: Insights of non-motor Parkinson's disease symptomatology" was successfully defended on 4-9-2017.

#### UTEP Biological Sciences Department

1. **Oscar Sanchez, M.A.** - 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 M.A.** - Master's Thesis Committee Member, Thesis title, "Neocortical proteome comparison of socially conditioned rats with various odors" was completed on 8-2-2005.
3. **Dr. 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.

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4. **Samantha Chagra, M.A.** - 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, M.A.** - 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 DeSantos, M.A.** - 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. **Dr. 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, M.A.** - Master's Thesis Committee Member, Thesis title, "The role of stress in escalation of methamphetamine self-administration" was completed on 5-11-2012.
9. **Dr. 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. **Dr. 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. **Dr. Jorge Sierra** - Dissertation Defense Committee Member, Dissertation title, "Gbg-microtubule mediated mechanism of neuronal differentiation" was completed on 2-26-2014.
12. **Sarah Chenausky, M.A.** - 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. **Dr. Chris D'Arcy** - Dissertation Defense Committee Co-Chair, Dissertation title, "Stress modulation of methamphetamine escalation in rats" was successfully defended on 7-27-2015.
14. **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.
15. **Sebastian Pace** - Master's Thesis Committee Member, Thesis title, "Characterization of a medial prefrontal cortex-caudal pontine reticular nucleus connection relevant to sensorimotor gating" was completed on 12-8-2016.
16. **Jameel Hamdan** - Dissertation Committee Member, Thesis proposal title, "Effects of Early Life Stress on Addiction Mechanisms and Behaviors in Adulthood" was presented on 11-29-2016.
17. **Ashley Payan** - Master's Thesis Committee Member, Thesis title, "Development and characterization of FKBP52-specific inhibitors for the treatment of castration-resistant prostate cancer" was proposed on 5-18-2017.

### 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 fellow in the Department of Neuroscience in Psychiatry at the University of Pennsylvania. Dr. Perez and I organized a panel on effective mentoring strategies at the IRTI meeting in 2014.
2. **Natalia A. Quijano Carde, Ph.D.** - External Mentor in the IRTI training program (2017-present). Dr.

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Carde is a graduate student in the Department of Psychiatry at the University of Pennsylvania.

### University of Texas Medical Branch

1. **Elizabeth Crofton, Ph.D.** - External Dissertation Committee Member, Dissertation entitled, "Cellular mechanisms of environmental enrichment: Novel discovery-based strategies for target identification for neuropsychiatric disorders" was successfully defended on 7-11-2017.

### UTEP undergraduate mentees

1. **Hugo Tejeda, 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. He was also awarded a Faculty Undergraduate Neuroscience Travel Award to from the Society for Neuroscience in 2007. Hugo completed his undergraduate honors thesis in my laboratory. Hugo was awarded his Ph.D. in Neuroscience from The University of Maryland in 2013. He is now a post-doctoral fellow at NIDA and received a K99 grant award.
2. **Sofia Blanca Beas, Ph.D.** - (5-2007 to 8-2009) Minority Access to Research Careers Fellow and was awarded a NIDA training fellowship in 2009. Sofia completed her undergraduate honors thesis in my laboratory. She was awarded her Ph.D. from the University of Florida in Neuroscience in 2015. She is now a post-doctoral fellow at NIMH.
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 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 6-2015) Research Technician. Chris began working in my laboratory as an undergraduate student as part of our summer training program in Neuroscience. Chris was a

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- NIDA summer fellow at UTEP in 2015.
19. **Cecilia Hinojosa** - (6-2013 to 8-2016) Research Technician. Cecilia 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 2 best poster awards at the UTEP COURI symposium and the VIDA conference. She is a graduate student at Tufts University in the Experimental Psychology graduate program.
  20. **Sarah Woldermaria** - (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 worked in my laboratory as a NIDA summer fellow. Ibette is a graduate student at the University of Washington.
  23. **Victoria Edwards** - (6-2014 to 4-1-2016) Undergraduate student volunteer. She was a NIDA summer internship in 2015 at University of North Carolina and in 2016 at UT Austin.
  24. **Rosa Garcia-Hernandez** - (6-2015 to 8-2015) Undergraduate student who was a part of our summer training program in neuroscience. She is an undergraduate at University of Michigan.
  25. **Keegan Loveless** - (6-2015 to 8-2015) Undergraduate student who was a part of our summer training program in neuroscience. He is an undergraduate at Virginia Commonwealth University.
  26. **Adriana Perez** - (6-2014 to 8-2016) Undergraduate student volunteer and research technician. She completed her undergraduate Honor's Thesis in my laboratory.
  27. **Tiahna Ontiveros** - (1-2015 to 8-2016) Undergraduate student volunteer. She was awarded a NIDA summer training fellowship in 2015 at CUNY in their Department of Neuroscience. She is a post-baccalaureate fellow at The University of New Mexico.
  28. **Robert Martinez** - (6-2015 to present) Undergraduate student volunteer and NIDA summer Fellow in 2016 at University of Arkansas Medical School.
  29. **Evangelina Espinosa** - (6-2016 to present) Undergraduate student volunteer as part of the RISE program.
  30. **Candy Ramirez** - (6-2016 to 8-2016) Undergraduate student who was a part of our summer training program in neuroscience. She is an undergraduate in the Department of Neuroscience at Smith College.
  31. **Israel Garcia** - (6-2016 to 8-2016) Undergraduate student who was a part of our summer training program in neuroscience. He is an undergraduate student at California State San Bernardino.
  32. **Alex Lopez** - (8-2016 to 7-2017) High school student who was a part of our summer training program in neuroscience. She served as our laboratory manager.
  33. **Melissa Ibarra** - (6-2015 to present) Undergraduate student who was a part of our summer training program in neuroscience. She serves as our laboratory manager.
  33. **Grace Hendricks** - (6-2017 to present) Undergraduate student who is a part of the BUILD program.
  33. **Clarissa Rosa** - (6-2017 to present) High School Teacher who is a part of our summer training program in neuroscience.

### 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, Steering Committee Member 2016-present, Conference Chair 2017)  
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

<b>10-1-2016</b>	Permanent member for Scientific Review study section, <i>Neurobiology of Motivated Behavior (NMB)</i> .
<b>2-18-2016</b>	Reviewer for the <i>Tobacco-Related Disease Research Program (TRDRP)</i> of The State of California.
<b>6-11-2015</b>	Reviewer for the Center for Scientific Review special emphasis panel, <i>Summer Research Experience Programs (ZNS1 SRB-E05)</i> .
<b>10-9-2014</b>	Reviewer for the Center for Scientific Review study section, <i>Neurobiology of Motivated Behavior (NMB)</i> .
<b>6-25-2014</b>	Reviewer for the Center for Scientific Review panel, <i>Fellowships: Behavioral Neuroscience (ZRG F02A-J20L)</i> .
<b>6-4-2014 and 11-17-2013</b>	Reviewer for the Center for Scientific Review panel, <i>Tobacco Control Regulatory Research (PAR 12-267)</i> .
<b>5-1-2013</b>	Reviewer for the <i>Arizona Institute for Mental Health Research Board</i> .
<b>1-15-2012</b>	Reviewer for Center for Scientific Review special emphasis panel, <i>Specialized Centers of Research on Sex Differences</i> .
<b>2-1-2009 to 6-1-2013</b>	Permanent member of the Center for Scientific Review study section, <i>Biobehavioral Regulation of Learning and Ethology (BRLE)</i> .
<b>7-1-2010</b>	Reviewer on the Center for Scientific Review special emphasis panel, <i>Risk, Prevention and Health Behavior</i> .
<b>3-24-2009</b>	Reviewer on the Center for Scientific Review special emphasis panel, <i>Motor Function, Speech Rehabilitation</i> .
<b>9-20-2008</b>	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> .
<b>12-8-2008</b>	Reviewer for the Canadian Tobacco Control Research Initiative.

## SERVICE ACTIVITIES

### University Service:

<b>2017</b>	Performance Annual Review Form (PARF) Committee Member
<b>2015-present</b>	Advisory Board Member of the UTEP College of Undergraduate Research Initiatives (COURI) Program
<b>2015-present</b>	Course Evaluation Coordinator for the Department of Psychology
<b>2014</b>	Behavioral Neuroscience Faculty Search Committee Co-Chair for the Department of Psychology
<b>2013-2014</b>	College of Liberal Arts Tenure and Promotion Committee Member
<b>2013</b>	Attending Veterinarian Search Committee Member
<b>2012-present</b>	Institutional Animal Care and Use Committee Member
<b>2013-present</b>	Animal Research Council Member
<b>2010-2013</b>	Editor of the Psychology Department Newsletter
<b>2013-present</b>	Psychology Department Facebook page Manager
<b>2011-2012</b>	Performance Annual Review Form (PARF) Committee Member; Chair of the committee in 2012
<b>2010</b>	Neuroscience Faculty Search Committee Member for the Department of Biological Sciences
<b>2009-2015</b>	Graduate Program Committee
<b>2009 and 2010</b>	Graduate School Outstanding Dissertation Selection Committee Member
<b>2007</b>	Neuroscience Faculty Search Committee Member for Department for

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<b>2007</b>	the Department of Biological Sciences Departmental Chair Search Committee Member for the Department of Psychology
<b>2006</b>	Dean of College of Science Search Committee Member

### External Service:

<b>2017</b>	Conference Chair for The National Hispanic Science Network 2017 annual meeting.
<b>2016-present</b>	Core Faculty Member of the Interdisciplinary Research Training Institute (IRTI)
<b>2016-present</b>	Steering Committee Member for The National Hispanic Science Network on Drug Abuse.
<b>2015-present</b>	Scientific Advisory Board Member for the XDA (Experimental Design Assistant) project sponsored by NIH/NIDA.
<b>2015-present</b>	Committee Member of the Endowment Fund for Racial and Ethnic Diversity
<b>2014-present</b>	<i>Rio Grande Society for Neuroscience</i> Chapter Member; Secretary in 2014
<b>2008-present</b>	Executive Committee of the NIH-funded Interdisciplinary Research Training Institute. Responsibilities include consultation regarding the biomedical component of the curriculum and serving as a faculty member and mentor for selective fellows in the program.
<b>2010-2011</b>	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.
<b>2010 to 2011</b>	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.
<b>2009 and 2012</b>	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.
<b>2007 and 2008</b>	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.