Laura E. O'Dell, Ph. D

The University of Texas at El Paso (UTEP)
Department of Psychology, 500 W. University, El Paso, TX 79968
E-mail address: lodell@utep.edu
Phone: (915) 747-6557 Fax: (915) 747-6553
http://www.works.bepress.com/laura_odell/

EDUCATION

1997 Ph.D.	**Behavioral Neuroscience**, Arizona State University
1994 M.A.	**Behavioral Neuroscience,** Arizona State University
1992 B.S.	**Psychology and Biology,** 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-Doctoral Fellow,** The Scripps Research Institute, Department of Neuropharmacology, La Jolla, CA
1997-1999	**Post-Doctoral Fellow**, Amethyst Technologies, Behavioral Genetics, Scottsdale, AZ

AWARDS

2017	**Research Exemplar Award.** This recognition is given by the Professionalism and Integrity in Research Program, as part of the Research Exemplar Project. It recognizes individuals who conduct high quality, high-impact research and exemplify professionalism and integrity in research.
2008	**Presidential Early Career Award for Scientists and Engineers (PECASE).** This award is 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 recognizes 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, which provided an extension of the R01 grant.

HONORS

2016	**Excellence in Mentoring** given by the National Hispanic Science Network on Drugs of Abuse
2016	**Outstanding Performer** in 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	**Outstanding Performer** in securing extramural funding given by the UTEP Office of Research and Sponsored Projects
2008	**Outstanding Performer** in securing extramural funding given by the UTEP Office of Research and Sponsored Projects
2006	**Outstanding Young Investigator** in The College of Liberal Arts

FUNDED GRANTS

Current Support

2019-2020 **Sex Differences in the Neurochemical Mechanisms By Which Stress Enhances Nicotine Reward and Withdrawal**
Role: Mentor; Agency: NIDA; Type: F31 (DA046126); Total costs: $54,847; Period: 01/01/19-06/30/20; Goal: To support a pre-doctoral trainee (Kevin Uribe) in his research involving the neurochemical mechanisms that promote nicotine use in females.

2012-2022 **Research Excellence for Undergraduates (REU) Summer Mentoring And Research Training: Methods In Neuroscience of Drug-Abuse (SMART MIND)**
Role: Primary Investigator; Agency: NIDA; Type: 2R25 (DA033613); Current period costs: $517,055; Current period: 05/01/12–04/30/22; Goal: To enrich the science education and research training of undergraduate students and high school teachers with a specific focus on the neuroscience of drug-addiction.

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: 09/30/16-09/30/20; Goal: To provide a tailored 2-year research experience and professional development program for underrepresented post-doctoral fellows conducting basic biomedical substance abuse research.

2014-2019 **Sex Differences in the Mechanisms that Promote Nicotine Reward and Withdrawal**
Role: Primary Investigator; Agency: NIDA; Type: 2R01 (DA021274); Current period costs: $2,414,222; Current period: 05/01/14-04/30/19; Goal: To examine sex differences in the neurochemical mechanisms that promote the rewarding effects of nicotine and the aversive effects of withdrawal.

Previous Support

2016-2018 **Faculty Science and Technology Acquisition and Retention (STARs) Program**
Role: Participating Investigator; Agency: University of Texas System; Type: Retention Program; Total costs: $250,000; Period: FY 2016-2018; Goal: This award supports the 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: $118,261; Period: 09/01/15-08/30/18; Goal: To examine the neurochemical mechanisms by which insulin promotes the rewarding effects of nicotine.

2011-2016 **Diversity Institution Drug Abuse Research Program: Vulnerability Issues in Drug Abuse (VIDA)**
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: 03/04/11–03/03/16; 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: 04/01/15-03/31/16; 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: 07/01/12–06/30/15; Goal: To examine the neurobiological mechanisms that promote tobacco use vulnerability in diabetic subjects.

2012 **Neural Mechanisms Mediating Enhanced Tobacco Abuse in Diabetic Rats**
Role: Primary Investigator; Agency: NIH; Type: Pilot project (5G12RR008124); Total costs: $25,000; Period: 01/01/12-06/30/12; Goal: To examine the neurochemical mechanisms that mediate enhanced rewarding effects of nicotine in an animal model of diabetes.

2007-2013 **Nico-teen: Mechanisms of Nicotine Reward and Withdrawal During Adolescence**
Role: Primary Investigator; Agency: NIH; Type: R01 (DA021274); Total costs: $2,076,387; Period: 08/01/07-12/31/13; Goal: To examine the neurochemical mechanisms that mediate age and sex differences to the rewarding and aversive effects of nicotine. This R01 grant was extended for an additional year via the PECASE award.

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: 05/01/05-07/31/05; 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: 07/01/03-06/30/06; 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: 06/01/08-05/31/11; Goal: To support a pre-doctoral trainee (Dr. Luis Natividad) in his research 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: 10/01/10-06/30/11; 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: 07/01/93-08/02/96; Goal: To characterize the role of dopamine receptor subtypes in the rewarding effects of cocaine in rats.

PUBLICATIONS

1. Correa, V.L., Flores, R.J., Carcoba, L.M., Garcia-Arreguin, M., and **O'Dell, L.E.** (2019). Sex differences in cholinergic systems in the interpeduncular nucleus following nicotine exposure and withdrawal. *Neuropharmacology,* 158: 107714. PMID:31325431.
2. Geste, J., Levin, B., Wilks, I., Pompilus, M., Zhang, X., Esster, K., Febo, M., **O'Dell, L.E.,** and Bruijnzeel, A.W. (2019). Relationship between nicotine intake and reward function in rats with intermittent short versus long access to nicotine. *Nicotine and Tobacco Research*, in press. PMID:30958557.
3. Cruz, B., Flores, R.J., Uribe, K.P., Espinosa, E.J., Spencer, C.T., Serafine, K.M., Nazarian, A., **O'Dell, L.E.** (2019). Insulin modulates the strong reinforcing effects of nicotine and changes in insulin biomarkers in a rodent model of diabetes. *Neuropsychopharmacology*, 44: 1141-1151. PMID:30647447.
4. Flores, R.J., Uribe, K.A, and **O'Dell, L.E.** (2019). Sex differences in nicotine intravenous self-administration: A meta-analytic review. *Physiology and Behavior*, 203: 42-50. PMID:29158125
5. Ibias, J., **O'Dell, L.E.,** and Nazarian, A. (2018). Insulin dependent and independent normalization of blood glucose levels reduces the enhanced rewarding effects of nicotine in a rodent model of diabetes. *Behavioural Brain Research*, 351: 75-82. PMID:29803655
6. Carcoba, L.M., Flores, R.J., Natividad, L.A., and **O'Dell, L.E.** (2017). Amino acid modulation of dopamine in the nucleus accumbens mediates sex differences in nicotine withdrawal. *Addiction Biology*, 23: 1046-1054. PMID:28940989
7. Pipkin, J.A., Cruz, B., 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,* 234: 1615-1622. PMID:28342091
8. 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.
9. 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. *Current Addiction Reports,* 3: 27-36.
10. 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
11. 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
12. **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

13. 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
14. 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. PMID:4432401
15. **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
16. 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
17. 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. PMID:4125457
18. 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
19. **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
20. 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
21. 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
22. 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:3472122
23. Tejeda, 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
24. 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:3444240
25. **O'Dell, L.E.** (2011). Nico-teen: Neural substrates that mediate adolescent tobacco abuse. *Neuropsychopharmacology, Hot Topics issue*, 36:356-357. PMCID:3055509
26. 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
27. Natividad, L.A., Tejeda, 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
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29. Torres, O.V., Natividad, L.A., Tejeda, 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
30. 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
31. **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. PMID:2646496
32. **O'Dell, L.E.** (2009). A psychobiological framework of the substrates that mediate nicotine use during adolescence. *Neuropharmacology,* 56:263-278. PMID:18723034
33. 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. PMID:18979677
34. Torres, O.V., Natividad, L.A., Tejeda, 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
35. 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. PMID:2493536
36. 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. PMID:2769571
37. George, O., Ghozland 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
38. 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.
39. 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. PMID:2749684
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42. **O'Dell, L.E.**, Chen, S.A., Specio, S.E., Paterson, N.E., Balster, R.L., Markou, A., E.P. Zorilla, 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
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the amygdala during cocaine withdrawal. *Neuropsychopharmacology*, 19:48-59. PMID:9608576

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ABSTRACTS

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105. Torres, O.V., Tejeda, H.A., Natividad, L.N., **O'Dell, L.E.** The rewarding effects of nicotine are enhanced in female adolescent rats and in adult females in an estrous-dependent manner. *Society for Neuroscience,* 2007.
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108. Byers, D.M., Natividad, L.A., Irwin, L.N., and **O'Dell, L.E.** Molecular targets of nicotine withdrawal are differentially expressed in adolescent and adult rats. *College on Problems of Drug Dependence*, 2007.
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111. Natividad, L.N., Torres, O.V., Tejeda, H.A., and **O'Dell, L.E.** Nicotine withdrawal produces a decrease in dopamine release in the nucleus accumbens of adult, but not adolescent rats. *Society for Neuroscience*, 2006.
112. Torres, O.V., Tejeda, H.A., Natividad, L.N., and **O'Dell, L.E.** Enhanced nicotine reward and diminished nicotine withdrawal in adolescent versus adult rats. *Society for Neuroscience*, 2006.
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115. **O'Dell, L.E.,** Grant, Y., Smith, R.T., Specio, S.E., Richardson, H.N., Zorrilla, E.P., Markou, A., and Koob, G.F. Intermittent access to escalating nicotine doses results in higher intake than continuous access to a single dose in a self-administration rat model of nicotine dependence. *Tobacco-Related Disease Research Program*, 2005.
116. Torres, O.V., Natividad, L.N., Tejeda, H.A., and **O'Dell, L.E.** Diminished nicotine withdrawal in adolescent rats: Implications for vulnerability to addiction. *Faculty for Undergraduate Neuroscience at the Society for Neuroscience*, 2005.
117. Specio, S.E., Grant, Y., **O'Dell, L.E.,** Pulvirenti, L., and Koob, G.F. Withdrawal from methamphetamine in escalated and non-escalated rats results in dissimilar motivation for a natural reinforcing stimulus. *Society for Neuroscience*, 2005.
118. Richardson, H.N., **O'Dell, L.E.,** Lee, S.Y., Koob, G.F., and Rivier, C.L. Dysregulation of the hypothalamic pituitary adrenal axis in alcohol dependent self-administering rats. *Society for Neuroscience*, 2005.
119. **O'Dell, L.E.,** Grant, Y., Smith, R.T., Specio, S.E., Zorrilla, E.P., Markou, A., and Koob, G.F. Intermittent access to escalating nicotine doses results in higher intake than continuous access to one dose in an extended-access self-administration rat model. *Society for Neuroscience*, 2005.
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122. Sanna, P.P., Berton, F., Lekic, D., Specio, S., Chen, S.A., Richardson, H.N., **O'Dell, L.E.,** Koob, G.F., and Francesconi, W. Protracted disruption of neuronal plasticity in the bed nucleus of the stria terminalis (BNST) in alcohol, cocaine, or heroin post-dependent rats. *Society for Neuroscience*, 2004.
123. Specio, S.E., Zorrilla, E.P., **O'Dell, L.E.,** Boutrel, B., Smith, R.T., Grant, Y., and Koob, G.F. Systemic administration of CRF1 receptor antagonists decreases cocaine self-administration in escalated and non-escalated rats. *Society for Neuroscience*, 2004.
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125. Richardson, H.N., **O'Dell, L.E.**, Koob, G.F., and Rivier, C. Corticosterone levels are attenuated in alcohol-dependent rats. *Research Society on Alcoholism*, 2004.
126. **O'Dell, L.E.,** Roberto, M., Morse, A.C., Brennan, M.A., Siggins G.R., and Koob G.F. Gabapentin reduces excessive drinking in ethanol-dependent rats through GABA modulation. *Research Society on Alcoholism*, 2004.
127. **O'Dell, L.E.**, Bruijnzeel, A.W., Markou, A., and Koob, G.F. Adolescent rats are less susceptible to nicotine withdrawal signs relative to their adult counterparts. *College on Problems of Drug Dependence*, 2004.
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129. Koob, G.K., **O'Dell, L.E.**, Bruijnzeel, A., Ghozland, S., Valdez, G., and Markou, A. Nicotine dependence in adult and adolescent rats. *Adolescent Brain Development: Vulnerabilities and Opportunities*, 2003.
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131. Parsons, L.H., **O'Dell, L.E.**, Stouffer, D., and Manzardo, A. Serotonin$_{1B}$ receptor modulation of cocaine-induced increases in NAcc DA transmission. *Society for Neuroscience*, 2002.
132. Chen, S.A., **O'Dell, L.E.,** Lerner, K., Balster, R, Donny, E., and Koob, G.F. Characterization of heroin intake, extinction, and precipitated withdrawal in rats self-administering nicotine in 23-hr sessions. *College on Problems of Drug Dependence*, 2002.
133. **O'Dell, L.E.**, Roberts, A.J. Brennan, M.A., and Koob, G.F. The effects of continuous or intermittent ethanol vapor on subsequent ethanol self-administration. *Research Society on Alcoholism*, 2002.
134. Alomary, A.A., Valle, M., **O'Dell, L.E.**, Fitzgerald, R.L., Koob, G.F., and Purdy, R.H. Formation of neuroactive steroids in the rat brain after acute ethanol administration. *Society for Neuroscience*, 2001.
135. **O'Dell, L.E.,** Tecott, L., and Parsons, L.H. Characterization of dopamine neurotransmission in the mesolimbic and mesostriatal pathways of mutant mice lacking 5-HT$_{2C}$ receptors. *College on Problems of Drug Dependence*, 2001.
136. **O'Dell, L.E.,** Tecott, L., and Parsons, L.H. Characterization of dopamine neurotransmission in the mesolimbic and mesostriatal pathways of mutant mice lacking 5-HT$_{2C}$ receptors. *Winter Conference on Brain Research*, 2001.
137. **O'Dell, L.E.,** Stouffer, D., and Parsons, L.H. The role of 5-HT$_{1B}$ receptors in the VTA in mediating cocaine-induced elevations of NAcc DA levels. *Society for Neuroscience*, 2000.
138. **O'Dell, L.E.** and Parsons, L.H. Activation of 5-HT$_{1B}$ receptors in the VTA potentiates cocaine-induced elevations of DA levels in the NAcc. *Winter Conference on Brain Research*, 1999.
139. George, F.R., **O'Dell, L.E.,** Kreifeldt, M.J., and Ritz, M.C. Cocaine-induced convulsions: 5-HT$_{2C}$ receptors appear to mediate genetic sensitivity. *Society for Neuroscience*, 1998.
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Concomitant changes in dopamine neurotransmission and cocaine-seeking behavior. *Arizona Chapter Society for Neuroscience*, 1998.

142. **O'Dell, L.E.**, Sussman, A.N., Grote, K.A., and Neisewander, J.L. Amphetamine infusions into the central amygdala produce conditioned place preference. *Arizona Chapter Society for Neuroscience*, 1998.
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145. Tran-Nguyen, L.T.L, Fuchs, R.A., Coffey, G.P., Baker, D.A., **O'Dell, L.E.,** and Neisewander, J.L. Dopamine overflow in the amygdala during withdrawal from self-administered cocaine. *Society for Neuroscience*, 1996.
146. **O'Dell, L.E.,** Sussman, A.N., and Neisewander, J.L. Stimulant and rewarding properties of cocaine following intra-ventricular or intra-amygdala infusions. *Society for Neuroscience*,1996.
147. **O'Dell, L.E.,** Tran-Nguyen, L.T.L., Castañeda, E., Sussman, A.N., Fuchs, R.A., and Neisewander, J.L. Dopamine overflow in the nucleus accumbens of rats responding in extinction from cocaine self-administration. *International Behavioral Neuroscience Society*, 1996.
148. **O'Dell, L.E.,** Tran-Nguyen, L.T.L., Castañeda, E., and Neisewander, J.L. Dopamine overflow in the nucleus accumbens of rats responding in extinction from cocaine self-administration. *Arizona Chapter Society for Neuroscience*, 1996.
149. **O'Dell, L.E.,** Tran-Nguyen, L.T.L., Castañeda, E., and Neisewander, J.L. Dopamine overflow in the nucleus accumbens of rats responding in extinction from cocaine self-administration. *Society for Neuroscience*, 1995.
150. Baker, D.A., **O'Dell, L.E.**, Khroyan, T.V., Fuchs, R.A., and Neisewander, J.L. Effects of intra-accumbens sulpiride on cocaine-induced locomotion and CPP. *College on Problems of Drug Dependence,* 1995.
151. Neisewander, J.L., **O'Dell, L.E.,** and Redmond, J. Localization of dopamine receptor subtypes occupied by intra-accumbens administration of selective antagonists that reverse cocaine-induced locomotion. *College on Problems of Drug Dependence*, 1994.
152. **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.
153. 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.
154. **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.
155. 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

6/16/19	Essential skills for career development. *College on Problems of Drug Dependence*, San Antonio, TX.
5/6/2019	Neural mechanisms that promote tobacco use in vulnerable populations: Findings from animal models. *Department of Psychology, University of New Mexico,* Albuquerque, NM.
4/26/2019	Neural mechanisms of tobacco use vulnerability. *Department of Neuroscience, Washington State University,* Pullman, WA.
4/9/2019	Professor, scientist, mentor, and mom: Integrating the personal and professional. *NIDA Diversity Supplement Trainee Meeting*, Bethesda, MD.
11/2/2018	Sex differences in the brain: Balancing sex in preclinical research. *Society for*

Neuroscience, San Diego, CA.

5/21/2018 Publication Processes and Predatory Journals. *Marine Biological Laboratories SPINES Program*, Woodshole, MA.

5/11/2018 Commencement Speech. *California State University Long Beach Research Symposium,* Long Beach, CA

2/15/2018 Neural mechanisms of tobacco abuse vulnerability. *Department of Physiology, Louisiana State University.* New Orleans, LA.

8/14/2017 Nicotine and the young mind. *Paso del Norte Tobacco Control Network Meeting*, El Paso, TX.

5/23/2017 Tobacco, use in vulnerable populations. *Marine Biological Laboratories SPINES Program*, Woodshole, MA.

5/19/2017 Neural mechanisms that promote tobacco use in vulnerable populations: Findings from animal models. *Society for Neuroscience, Neuroscience Scholars Program*, Webinar series.

5/8/2017 Career mentoring and the application of animal models in drug abuse. *Interdisciplinary Research Training Institute,* Pasadena, CA.

5/5/2017 From diversity supplement trainee to successful research investigator. *NIDA Diversity Supplement Trainee Meeting*, 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. *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.

4/15/2016 Science as a platform to promote diversity. *NIDA Diversity Supplement Trainee Meeting*, Bethesda, MD.

4/14/2016 Neural mechanisms that promote tobacco use in females. *NIDA Women and Sex/Gender Differences Research Group Meeting*, Bethesda, MD.

2/23/2016 Neural mechanisms that promote nicotine use in vulnerable populations. *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 model 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 UTEP Graduate Student Expo,* El Paso, TX.

11/5/2015 Neural mechanisms that promote nicotine use: Findings from animal models. *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. *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. *Neurobehavioral Teratology Society*, Quebec, Canada.

6/26/2015 Animal models of adolescent tobacco use: Implications for the prevention, treatment, and long-term consequences of adolescent nicotine exposure. *National Hispanic Science Network Meeting,* San Antonio, TX.

6/24/2015 Neuroscience and Drug Issues: A pre-conference workshop. *National Hispanic Science Network Meeting,* San Antonio, TX.

6/5/2015 Neurobiological mechanisms that modulate the long-term effects of nicotine exposure during adolescence: Mechanisms and long-term effects. *International Behavioral Neuroscience Society*, British Colombia, Canada.

2/28/2015 Enhanced rewarding effects of nicotine in a rodent model of diabetes. *Society for Research on Nicotine and Tobacco,* Philadelphia, PA.

2/26/2015 Sex differences in the neural mechanisms that promote stress and negative affective states produced by nicotine withdrawal. *Society for Research on Nicotine and Tobacco,* Philadelphia, PA.

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, MO.

10/21/2014 Neurochemical mechanisms that modulate tobacco use vulnerability. *Department of Psychology, University of Michigan,* Ann Arbor, MI.

8/11/2014 A role for insulin in drug abuse vulnerability. *NIDA Neuroscience Consortium Cutting Edge Symposium on Metabolic Pathways to Addiction,* Bethesda, MD.

6/6/2014 The road less traveled: Effective mentoring strategies for graduate trainees. *Panel co-Chair. *Interdisciplinary Research Training Institute Meeting,* Miami, FL.

1/27/2014 Neuronal substrates that promote individual variation in compulsive behaviors. *Panel Chair. *Winter Conference on Brain Research*, Steamboat Springs, CO.

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, CA.

10/22/2013 Neurochemical mechanisms that modulate tobacco use vulnerability. *Duke Institute for Brain Sciences,* Durham, North Carolina.

10/10/2013 Using animal models to understand the neurobiology of addiction. *National Hispanic Science Network Meeting,* Washington, D.C. *Panel Chair.

9/23/2013 Age and sex differences in the mechanisms that mediate tobacco abuse. *Department of Psychology, University of Massachusetts Amherst,* Amherst, MA.

6/14/2013 Enhanced vulnerability to tobacco use in women: Evidence from animal models. *Charles Drew Medical School,* Los Angeles, CA.

3/16/2013 Preclinical evidence of age and sex differences in the mechanisms that mediate enhanced vulnerability to tobacco abuse: Implications for regulating nicotine in cigarettes. *Society for Research on Nicotine and Tobacco,* Boston, MA.

1/16/2013 The role of age and sex differences in the mechanisms that mediate tobacco abuse. *Department of Psychology, Florida State University,* Tallahassee, FL.

10/11/2012 Age and sex differences in the mechanisms that mediate tobacco abuse. *Department of Psychology, Texas A&M University,* College Station, TX.

9/27/2012 The role of brain stress peptides in drug addiction and anxiety disorders: Sex differences in tobacco addiction. *National Hispanic Science Network Meeting,* San Diego, CA.

6/11/2012 The effects of extended access to methamphetamine self-administration on dopamine systems. *College on Problems of Drug Dependence*, Palm Springs, CA.

5/3/2012 Nico-teen: Age and sex differences in the mechanisms that mediate nicotine withdrawal. *Medical University of South Carolina,* Charleston, SC.

3/23/2012 Nico-teen: Neural substrates that mediate enhanced vulnerability to tobacco abuse during adolescence. *Department of Neuropharmacology, The Scripps Research Institute,* La Jolla, CA.

1/17/2012 Neural substrates of tobacco addiction in adolescence. *Department of Psychology, University of North Carolina,* Chapel Hill, NC.

6/7/2011 Workshop on animal models of drug addiction. *Summer Research Training Institute on Drugs of Abuse*, Houston, TX.

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, CA.
3/23/2011	The female nervous system: Differential responses to important stimuli. *Women's History Month UTEP Conference,* El Paso, TX.
3/21/2011	Neuronal substrates mediating tobacco abuse during adolescence. *Texas Tech University Health Sciences Center of Excellence in Neuroscience.* El Paso, TX.
3/11/2011	NICOTEEN: Neural substrates of tobacco addiction in adolescence. *Department of Pharmacology and Toxicology, University of Texas Medical Branch*, Galveston, TX.
8/13/2010	Age differences in the rewarding and weight suppressant effects of nicotine. *Charles Drew Medical School Brain Research Day Meeting.* Los Angeles, CA.
6/15/2010	Psychobiological factors that contribute to tobacco abuse during adolescence. *****Panel Chair. *College on Problems of Drug Dependence*, Scottsdale, AZ.
3/7/2010	Psychobiological substrates that mediate age and sex differences to tobacco abuse. *Behavior, Biology and Chemistry: Translational Research in Addiction*, San Antonio, TX.
2/19/2010	Mechanisms of Tobacco Abuse. *Medical Center of the Americans Research Advancement Symposia, Texas Tech Paul Foster School of Medicine.* El Paso, TX.
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, TX.
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, TX.
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, CA.
1/30/2009	Nico-teen: Psychobiological substrates that mediate tobacco use during adolescence. *School of Medicine, Texas Tech University.* El Paso, TX.
1/09/2009	How does nicotine work in the brain? *El Paso Consortium on Tobacco Cessation Meeting.* El Paso, TX.
5/20/2008	From trainee to independent investigator. *NIDA Diversity Supplement Trainee Meeting*, Bethesda, MD.
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, OR.
10/16/2007	Developmental and sex differences to nicotine withdrawal: A behavioral and neurochemical approach to studying nicotine addiction. *Department of Physiology, Louisiana State University.* New Orleans, LA.
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 NIDA Joint Meeting on The Future of Youth Tobacco Cessation Research.* Rockville, MD.
4/13/2007	The neural basis of nicotine addiction. *El Paso Consortium on Tobacco Cessation Meeting.* El Paso, TX.
3/16/2007	Nico-teen: Developmental influences on the rewarding and aversive properties of nicotine in rats. *Department of Pharmacology and Neuroscience at Texas Tech University Health Science Center*. Lubbock, TX.
2/22/2007	A translational approach to understanding gender, adolescence, and vulnerability to nicotine addiction. *Society for Research on Nicotine and Tobacco.* Austin, TX.
9/16/2006	Differential sensitivity to the rewarding and aversive effects of nicotine during adolescence. *National Hispanic Science Network on Drug Abuse*. Phoenix, AZ.

6/18/2006 Nicotine withdrawal is diminished in adolescent versus adult rats. *College on Problems of Drug Dependence.* Scottsdale, AZ.

9/06/2005 Cocaine on the Brain: Serotonergic modulation of dopamine transmission. *Department of Pharmacology and Toxicology, The University of Texas at Austin*. Austin, TX.

10/18/2004 The psychopharmacology of nicotine addiction. *American Association for Cancer Research.* Seattle, WA.

2/21/2004 Nicotine dependence in adult and adolescent rats. *Society for Research on Nicotine and Tobacco.* Scottsdale, AZ.

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, KY.

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,* Indianapolis, ID.

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, CA.

4/10/2001 Cocaine on the brain: Serotonergic modulation of dopamine neurotransmission. *Department of Neuropharmacology, Scripps Research Institute,* La Jolla, CA.

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, AZ.

4/1/1997 The role of the amygdala in amphetamine conditioned place preference. *University of Arizona Regional Society for Neuroscience*, Tucson, AZ.

1/17/1997 Investigation of the neural mechanisms of drug-seeking behavior in rats. *Department of Pharmacology and Toxicology, University of Texas Medical Branch,* Galveston, TX.

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 and Professional Development, Neuroendocrinology, Fundamentals of Neuroscience,* and *Grant Writing*. The last 7 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. **Fatima Alshbool, Ph.D.** - Assistant Professor, Pharmaceutical Sciences, UTEP (3-17-2017 to present). External faculty mentor for tenure and promotion.
2. **Akiko Shimamoto, Ph.D.** - Assistant Professor, Department of Neuroscience and Pharmacology, Meharry Medical College (3-8-2016 to present). External faculty mentor for tenure and promotion.
3. **Sergio Iñiguez, Ph.D.** - Associate Professor, Department of Psychology, California State San Bernadino (1-12-2015). External faculty mentor as part of the Early Career Institute in Neuroscience. Dr. Iñiguez was awarded tenure at UTEP.
4. **Nick Gilpin, Ph.D.** - Assistant Professor, Department of Physiology, Louisiana State University (11-1-2011). External mentor on his tenure and promotion committee. Dr. Gilpin was awarded tenure.
5. **Oralia Loza, Ph.D.** - Assistant Professor, College of Health Sciences, UTEP (1-1-2011). Mentor through the Collaborative Faculty Mentoring Program. Dr. Loza was awarded tenure.

Post-doctoral Trainees:

1. **Felix Matos, Ph.D.** - Post-Doctoral Fellow, Primary Mentor (6-2017 to present).
2. **Victor Correa, Ph.D.** - Post-Doctoral Fellow, Primary Mentor (10-2015 to 9-2018).
3. **Luis Carcoba, Ph.D.** – Post-Doctoral Fellow, Primary Mentor (10-2012 to 5-2015). Dr. Carcoba was promoted to Research Assistant Professor in the O'Dell laboratory at UTEP.
4. **Annie Whitaker, Ph.D.** - External Mentor in a National Hispanic Science Network training program (7-2014 to 7-2016). Dr. Whitaker was a post-doctoral fellow in the Department of Physiology at Louisiana State University. Dr. Whitaker is a high school biology teacher.
5. **James Orfila, Ph.D.** - Post-Doctoral Fellow, 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.

Graduate Student Committees:

<u>UTEP Psychology Department</u>

1. **Francisco Flores, M.A. -** Master's Thesis Committee Member (4-2017 to present). Thesis title, "Antidepressant exposure results in an anhedonia-like behavioral phenotype later in life: A study in female C57BL/6 mice" was completed on 4-17-2018.
2. **Jeremiah Ramos, M.A.** - Dissertation Thesis Committee Member (8-2016 to present). Master's Thesis title, "The impact of dopaminergic lesions on cognition: Insights of non-motor Parkinson's disease symptomotology" was completed 4-9-2017.
3. **Kevin P. Uribe, M.A. -** Primary Mentor (8-2015 to present). Recipient of a NIH Ruth Kirschstein Pre-Doctoral Fellowship. Awarded the National Hispanic Science Network Outstanding Graduate Student Award in 2018. Recipient of a NIH Ruth Kirschstein Pre-Doctoral Fellowship.
4. **Bryan Cruz**, **M.A. -** Primary Mentor (8-2015 to present). Master's Thesis title, "Examination of the role of insulin in modulating the reinforcing effects of nicotine in a rodent model of diabetes" was completed 5-21-18.
5. **Rodolfo J. Flores, M.A**. - Primary Mentor (8-2014 to present). Master's Thesis title, "*Characterization of sex differences in the reinforcing effects of nicotine"* was completed 3-23-2017. Awarded the National Hispanic Science Network Outstanding Graduate Student Award in 2017.
6. **Joseph A. Pipkin, Ph.D. -** 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 11-29-16. Dr. Pipkin is a post-doctoral fellow at UTEP.

7. **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 completed 6-11-2015.
8. **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 5-13-2015.
9. **Oscar V. Torres, Ph.D.** - 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 12-7-2012. Awarded the Dodson Graduate School Fellowship and the Outstanding Dissertation Thesis in Psychology. Dr. Torres is a tenure-track Assistant Professor at Mesa Community College in San Diego, CA.
10. **Luis A. Natividad, Ph.D.** - 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 was a post-doctoral trainee at the Scripps Research Institute on a K99 training award. He is a tenure-track Assistant Professor at The University of Texas at Austin in the Department of Pharmacology.

<u>UTEP Biological Sciences Department</u>

1. **Michelle Sanchez** – Dissertation Committee Member, Thesis proposal title, "Differences in M1 and M2 macrophage subtypes between the sexes determines susceptibility to Francisella tularensis infection" was proposed on 11-12-18.
2. **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 5-18-2017.
3. **Oscar Sanchez, M.A**. - Master's Thesis Committee Chair, Thesis title, "Differential effects of in utero exposure to methanesulfonyl floride (MSF) on two different spatial memory tasks" was completed 5-28-2005.
4. **Jameel Hamdan** - Dissertation Committee Member, Thesis proposal title, "Effects of Early Life Stress on Addiction Mechanisms and Behaviors in Adulthood" was presented 11-29-2016.
5. **Sebastian Pace, M.S.** - Master's Thesis Committee Member, Thesis title, "Characterization of a medial prefrontal cortex-caudal pontine reticular nucleus connection relevant to sensorimortor gating" was completed 12-8-2016.
6. **Anais Martinez, Ph.D.** - Dissertation Committee Member, Dissertation title, "The metabolically sentient arcuate nucleus: A functional, chemoarchitectural and connectional study in the adult male rat" was successfully defended 11-21-2017.
7. **Chris D'Arcy, Ph.D.** - Dissertation Defense Committee Co-Chair, Dissertation title, "Stress modulation of methamphetamine escalation in rats" was successfully defended on 7-27-2015.
8. **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 12-8-2014.
9. **Jorge Sierra, Ph.D.** - Dissertation Defense Committee Member, Dissertation title, "Gbg-microtubule mediated mechanism of neuronal differentiation" was completed 2-26-2014.
10. **Susana Barrera, Ph.D.** - Dissertation Defense Committee Member, Thesis proposal title, "Regulation of the glycine transporter1 by PKC-alpha dependent ubiquitination" was completed on 11-1-2013.
11. **Yenni Garcia, Ph.D.** - Dissertation Committee Member, Dissertation title, "A regulatory role for

SGTa in the maturation and activation of steroid hormone receptors" was completed 11-18-2011.

12. **Joe Luevano, M.A.** - Master's Thesis Committee Member, Thesis title, "The role of stress in escalation of methamphetamine self-administration" was completed 5-11-2012.
13. **Jaidee Zavala, Ph.D.** - Dissertation Committee Member, Dissertation title, "Gender differences in the processing of acute and chronic stress" was completed 4-22-2011.
14. **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 9-18-2010.
15. **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.
16. **Samantha Chagra, M.A.** - Master's Thesis Committee Member, Thesis title, "Effects of chronic stress on neuronal pathways involved in feeding" was completed 12-4-2007.
17. **Shuwen Liang, Ph.D.** - Dissertation Committee Member, Thesis title, "Effect of diet and sex on changes in gene expression and behavioral responses to chronic stress" was completed 4-9-2007.
18. **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.

<u>The Scripps Research Institute</u>

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

<u>Texas Tech University</u>

1. **Ismael Segura, Ph.D.** - Dissertation Defense Committee Member, Dissertation title, "The role of alpha-synuclein on inhibition of histone deacetylases" was successfully defended 12-1-2017.

<u>Interdisciplinary Research Training Institute (IRTI)</u>

1. **Natalia A. Quijano-Carde, Ph.D.** - External Mentor in the IRTI training program (2017-present). Natalia is a graduate student in the Department of Psychiatry at the University of Pennsylvania.
2. **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. Dr. Perez is an Assistant Professor of Neuroscience at Xavier University in Louisiana.

<u>University of Texas Medical Branch</u>

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 completed 7-11-2017.

<u>UTEP Undergraduate Mentees</u>

1. **Hugo Tejeda, Ph.D**. - (5-2006 to 9-2008) Career Opportunities in Research Fellow and was awarded a Pre-doctoral Ford Foundation Fellowship and a Faculty Undergraduate Neuroscience Travel Award to attend the Society for Neuroscience meeting in 2007. He completed his undergraduate honors thesis in my laboratory. Hugo was awarded his Ph.D. in Neuroscience from the University of Maryland and he is a tenure-track faculty member at the NIMH.
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 and is now a post-doctoral fellow at the 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 graduated from 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.
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) Undergraduate student who 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, M.A.** - (6-2013 to 8-2016) Undergraduate student who 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 another local conference focused on drug abuse. She is a graduate student at Tufts University in the Experimental Psychology graduate program.
20. **Sarah Woldermariam** - (6-2014 to 8-2014) Undergraduate student who was a part of our summer training program in neuroscience. Sarah is a medical student at St George's University in Grenada.
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** - (6-2014 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. **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.
24. **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.
25. **Adriana Perez** - (6-2014 to 8-2016) Undergraduate student volunteer and research technician. She completed her undergraduate Honor's Thesis in my laboratory.

26. **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 graduate student at The University of Texas at Austin.
27. **Robert Martinez** - (6-2015 to present) Undergraduate student volunteer and NIDA summer Fellow in 2016 at University of Arkansas Medical School.
28. **Evangelina Espinosa** - (6-2016 to present) Undergraduate student volunteer as part of the RISE program.
29. **Candy Ramirez** - (6-2016 to 8-2016) Undergraduate student who was a part of our summer training program in neuroscience. She is an undergraduate student in the Department of Neuroscience at Smith College.
30. **Israel Garcia** - (6-2016 to 8-2016) Undergraduate student who was a part of our summer training program in neuroscience. He is currently a graduate student in Behavioral Neuroscience at UTEP.
31. **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. Alex is currently a post-baccalaureate fellow at the NIH/NIDA.
32. **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 8-2017) Undergraduate student who is a part of the BUILD program. Won Best Poster Award at the summer symposium.
34. **Clarissa Rosa -** (6-2017 to 8-2017) High School Teacher who was part of our summer training program in neuroscience.
35. **Paola Correa** - (1-2018 to present) Undergraduate student volunteer and research technician. She is funded by a Diversity supplement from NIDA to work in my laboratory.
36. **Montserrat Garcia-Arreguin**- (1-2018 to present) Undergraduate student who is part of the BUILD program. She completed her undergraduate honors thesis in my laboratory.
37. **Tania Miramontes-** (1-2018 to present) Undergraduate student who is part of the BUILD program. She completed her undergraduate honors thesis in my laboratory.
38. **Messiyah Stevens** (5-2019-7-2019) Undergraduate student funded by a supplement from the NIDA Summer Training Program
39. **Priscilla Giner** (5-2018 to present) Undergraduate student who is part of our summer training program in neuroscience

PROFESSIONAL AFFILIATIONS

College on Problems of Drug Dependence Member (Membership Committee 2014)
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 (El Paso Chapter Secretary-2014)
Society for Research on Nicotine and Tobacco Member

GRANT REVIEW COMMITTEES

10-1-2016 to 7-24-19	Member of the Center for Scientific Review study section, *Neurobiology of Motivated Behavior (NMB).*
2-18-2016	Reviewer for the *Tobacco-Related Disease Research Program* (TRDRP) of The State of California.
6-11-2015	Reviewer for the Center for Scientific Review special emphasis panel, *Summer Research Experience Programs* (ZNS1 SRB-E05).
10-9-2014	Reviewer for the Center for Scientific Review study section, *Neurobiology of Motivated Behavior (NMB).*
6-4-2014 and 11-17-2013	Reviewer for the Center for Scientific Review panel, *Tobacco Control*

	Regulatory Research (PAR 12-267).
6-25-2014	Reviewer for the Center for Scientific Review panel, *Fellowships: Behavioral Neuroscience* (ZRG F02A-J20L).
5-1-2013	Reviewer for the *Arizona Institute for Mental Health Research Board*.
1-15-2012	Reviewer for Center for Scientific Review special emphasis panel, *Specialized Centers of Research on Sex Differences*.
7-1-2010	Reviewer on the Center for Scientific Review special emphasis panel, *Risk, Prevention and Health Behavior*.
3-24-2009	Reviewer on the Center for Scientific Review special emphasis panel, *Motor Function, Speech Rehabilitation*.
2-1-2009 to 6-1-2013	Member of the Center for Scientific Review study section, *Biobehavioral Regulation of Learning and Ethology (BRLE)*.
9-20-2008	Reviewer for the Department of Defense American Institute of Biological Sciences Peer Review Medical Research Program panel, *Alcoholism, Drug Abuse and Social Work*.
12-8-2008	Reviewer for the Canadian Tobacco Control Research Initiative.

SERVICE ACTIVITIES

Departmental Service:

2017-present	Performance Annual Review Form Committee Member
2018-present	Behavioral Neuroscience Area Director
2015-present	Course Evaluation Coordinator
2014	Behavioral Neuroscience Faculty Search Committee Co-Chair
2013-present	Psychology Department Facebook Manager
2010-2013	Editor of the Psychology Department Newsletter
2011-2012	Performance Annual Review Form Committee Member; Chair in 2012
2009-2015	Graduate Program Committee Member
2007	Departmental Chair Search Committee Member

University Service:

2017-2018	Dean of the College of Liberal Arts Search Committee Member
2015-present	Advisory Board Member of the UTEP College of Undergraduate Research Initiatives (COURI) Program
2013-2014	College of Liberal Arts Tenure and Promotion Committee Member
2013-present	Animal Research Council Member
2013	Attending Veterinarian Search Committee Member
2012-present	Institutional Animal Care and Use Committee Member
2010	Neuroscience Faculty Search Committee Member for the Department of Biological Sciences
2009 and 2010	Graduate School Outstanding Dissertation Selection Committee Member
2007	Neuroscience Faculty Search Committee Member for the Department of Biological Sciences
2006	Dean of College of Science Search Committee Member

External Service:

2018-present	Member of the NIAAA Advisory Council Working Group: Diversity and Health Disparities Biomedical Workforce
2017	Conference Chair for the National Hispanic Science Network on Drug

	Abuse annual meeting
2015-present	Scientific Advisory Board Member for the XDA (Experimental Design Assistant) project sponsored by NIH/NIDA
2015-present	Committee Member of the Endowment Fund for Racial and Ethnic Diversity
2014-2016	Rio Grande Society for Neuroscience Chapter Member; Secretary in 2014
2010-2011	Chair of the Early Career Leadership Committee and the Steering Committee of the National Hispanic Science Network.
2009 and 2017-present	Steering Committee Member for the National Hispanic Science Network on Drug Abuse.
2008-present	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 mentor for selective fellows in the program.
2007 and 2008	Program Committee Member for *The Society for Research on Nicotine and Tobacco*. Responsibilities included choosing the meeting speakers, reviewing abstracts and other planning activities.