

Dr. Laura Elena Montelongo O'Dell

Curriculum Vita updated 11/10/2021

PERSONAL INFORMATION

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EDUCATION

1997 *Ph.D.*, Behavioral Neuroscience, Arizona State University, Tempe, AZ
1994 *M.A.*, Behavioral Neuroscience, Arizona State University, Tempe, AZ
1992 *B.S.*, Psychology and Biology, Texas A&M University, College Station, TX

PROFESSIONAL POSITIONS

2020-present *Associate Vice President for Research*, UTEP, El Paso, TX
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
2001-2004 *Staff Scientist*, Scripps Research Institute, Neuropharmacology, La Jolla, CA
1999-2000 *Post-Doctoral Fellow*, Scripps Research Institute, Neuropharmacology, La Jolla, CA
1997-1999 *Post-Doctoral Fellow*, Amethyst Technologies, Inc., 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 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.

HONORS

2016	Outstanding Performer, UTEP Office of Research and Sponsored Projects
2016	Excellence in Mentorship Award, National Hispanic Science Network on Drugs of Abuse
2015	Faculty Mentor Award, UTEP College of Undergraduate Research Initiatives
2012	Outstanding Performer, UTEP Office of Research and Sponsored Projects
2008	Outstanding Performer, UTEP Office of Research and Sponsored Projects
2006	Outstanding Young Investigator, UTEP College of Liberal Arts

FUNDED GRANTS

Current Support:

1. *Supporting Translation of Education and Research in Neuroscience (STERN)* Role: Primary Investigator; Agency: El Paso Community Foundation Type: J. Edward and Helen M.C. Stern Family Foundation Award; Total cost: \$25,000; Period: 11/24/2021–11/23/2023; Goal: To support a collaborative research project and launch the Stern Family Seminar Series between UTEP and Texas Tech University Health Science Center-El Paso.
2. *Summer Mentoring And Research Training: Methods In Neuroscience of Drug-Abuse (SMART MIND)*. Role: Primary Investigator; Agency: NIDA; Type: 2R25 (DA033613); Total cost: \$527,185; Period: 05/01/2012–04/30/2022; Goal: To enrich the science education and research training of undergraduates and high school teachers with a focus on the neuroscience of drug addiction using rodent models.

Previous Support:

3. *Sex Differences in the Mechanisms that Promote Nicotine Reward and Withdrawal*. Role: Primary Investigator; Agency: NIDA; Type: 2R01 (DA021274); Total cost: \$2,175,574; Period: 05/01/2014–04/30/2021; Goal: To examine sex differences in the neurochemical mechanisms that promote the rewarding effects of nicotine and the aversive effects of withdrawal.
4. *Sex Differences in the Neurochemical Mechanisms By Which Stress Enhances Nicotine Reward and Withdrawal*. Role: Mentor; Agency: NIDA; Type: F31 (DA046126); Total cost: \$507,455; Period: 01/01/2019–12/31/2020; Goal: To support a pre-doctoral trainee (Dr. Kevin Uribe) in his research involving the neurochemical mechanisms that promote nicotine use in females.
5. *Vulnerability Issues In Drug Abuse: Career And Research Transdisciplinary Training Program (VIDA:CARTT)*. Role: Primary Investigator; Agency: NIDA; Type Contract (HHSN271201600057C); Total cost: \$908,108; Period: 09/30/2016–09/30/2020; Goal: To provide a tailored 2-year research experience and professional development program for underrepresented post-doctoral fellows conducting basic biomedical substance abuse research.
6. *Faculty Science and Technology Acquisition and Retention (STARs)*. Role: Participating Investigator; Agency: University of Texas System; Type: Retention Program; Total cost: \$250,000; Period: FY 2016–2018; Goal: This award supports the growth of established research programs in Texas.
7. *Insulin Mechanisms of Diabetes-Evoked Enhancement of Nicotine Reward*. Role: Co-Investigator; Agency: NIDA; Type: R15 (DA040130); Total cost: \$118,261; Period: 09/01/2015–08/30/2018; Goal: To examine the neurochemical mechanisms by which insulin promotes the rewarding effects of nicotine.
8. *Vulnerability Issues in Drug Abuse (VIDA)*. Role: Co-Investigator on primary project; Agency: NIDA; Type: R24 (DA029989); Sub-project cost: \$168,087; Period: 03/04/2011–03/03/2016; Goal: This award was funded through the Diversity Institution Drug Abuse Research Program (DIDARP). The goal was to build infrastructure and train minority scientists in multidisciplinary approaches to study

of drug abuse on the U.S./Mexico border. Our sub-project examined the mechanisms by which stress systems modulate vulnerability to drug abuse in an age- and/or sex-dependent manner.

9. *Drugs of Abuse and Remodeling of the Neuronal Cytoskeleton*. Role: Co-Investigator; Agency: NIH; Type: Pilot project (G12MD007592); Total costs: \$25,000; Period: 04/01/2015-03/31/2016; Goal: To examine whether cytoskeletal organization modulates alcohol and nicotine dependence.
10. *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 cost: \$345,000; Period: 07/01/2012–06/30/2015; Goal: To examine the neurobiological mechanisms that promote tobacco use vulnerability in rodent models of diabetes.
11. *Neural Mechanisms Mediating Enhanced Tobacco Abuse in Diabetic Rats*. Role: Primary Investigator; Agency: NIH; Type: Pilot project (5G12RR008124); Total cost: \$25,000; Period: 01/01/2012-06/30/2012; Goal: To examine the neurochemical mechanisms that mediate enhanced rewarding effects of nicotine in rodent models of diabetes.
12. *Nico-teen: Mechanisms of Nicotine Reward and Withdrawal During Adolescence*. Role: Primary Investigator; Agency: NIH; Type: R01 (DA021274); Total cost: \$2,076,387; Period: 08/01/2007-12/31/2013; Goal: To examine the neurochemical mechanisms that mediate age and sex differences to the rewarding and aversive effects of nicotine. This grant was extended for an additional year via the PECASE award.
13. *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 cost: \$10,000; Period: 05/01/2005-07/31/2005; Goal: To provide support for a student on a summer research project examining the neural mechanisms of developmental sensitivity to nicotine dependence.
14. *Nicotine Self-Administration in an Animal Model*. Role: Co-Investigator; Agency: Tobacco-Related Disease Research Program of California; Type: 12RT-0099; Total cost: \$675,195; Period: 07/01/2003-06/30/2006; Goal: To characterize the acquisition of nicotine self-administration and the transition to dependence under unlimited access conditions in rats.
15. *Mechanisms of Developmental Sensitivity to Nicotine Withdrawal*. Role: Mentor; Agency: NIDA; Type: F31 (DA021133); Total cost: \$78,495; Period: 06/01/2008-05/31/2011; Goal: To support a pre-doctoral trainee (Dr. Luis Natividad) in his research examining the neurochemical mechanisms that promote greater sensitivity to nicotine dependence in adolescent rats.
16. *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: To provide equipment that will foster collaborations between faculty at UTEP and the UT Health Science Center at San Antonio that are focused on the neural basis of diabetes and drug addiction.
17. *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: 10/01/2010-06/30/2011; Goals: To examine the role of stress in the escalation of methamphetamine self-administration in rats.
18. *Minority Neuroscience Training Program*. Role: Graduate Student Fellow; Agency: National Institute on Mental Health; Type: T32 (MH19185); Period: 07/01/1993-08/02/1996; Goal: To characterize the role of dopamine receptor subtypes in the rewarding effects of cocaine in rats.

PUBLICATIONS

1. **O'Dell, L.E.**, Koob, G.F., and Nazarian, A. Vulnerability to substance abuse: A consideration of allostatic loading factors. Editorial for a Special Issue of *Neuropharmacology*, in press.

2. Cruz, B., Ortegon, S., Matos-Ocasio, F., Rodriguez-Crespo, A., Uribe, K.P., Galindo, K.I., Serafine, K.M., Nazarian, A., and **O'Dell, L.E.** The emergence of insulin resistance coincides with an increase in the reinforcing effects of nicotine in a sex-dependent manner. *Neuropharmacology*, in press.
3. Carcoba, L.M., Uribe, K.P., Ortegon, S., Mendez, I.A., DeBiasi, M., **O'Dell, L.E.** (2021). Amino acid systems in the interpeduncular nucleus modulate nicotine withdrawal in a sex-dependent manner. *Journal of Neuroscience Research*, in press. PMID:33751631.
4. Flores, R.J., Alshbool, F., Giner, P., **O'Dell, L.E.**, and Mendez, I.A. (2021) Exposure to nicotine vapor produced by an electronic nicotine delivery system causes short-term increases in impulsive choice in adult male rats. *Nicotine and Tobacco Research*, in press. PMID:34232312.
5. Serafine, K.M., **O'Dell, L.E.**, Zorrilla, E. (2021). Converging vulnerability factors for compulsive food and drug use. *Neuropharmacology*, 196: 108556. PMID:33862029.
6. Matos, F.M., Espinoza, V.E., Correa-Alfonzo, P., Khan, A.M., **O'Dell, L.E.** (2021). Female rats display greater nicotine withdrawal-induced cellular activation of a central portion of the interpeduncular nucleus versus males: A study of Fos immunoreactivity within provisionally assigned interpeduncular subnuclei. *Drug and Alcohol Dependence*, 221: 108640. PMID:33640680.
7. Cruz, B., Carcoba, L.M., Flores, R.J., Espinoza, E.J., Nazarian, A., and **O'Dell, L.E.** (2021). Insulin restores the neurochemical effects of nicotine in the mesolimbic pathway of diabetic rats. *Journal of Neurochemistry*, 156(2): 200-211. PMID:32562571.
8. Flores, R.J., Cruz, B., Uribe, K.P., Correa, V.L., Arreguin, M.C., Carcoba, L.M., Mendez, I.A, and **O'Dell, L.E.** (2020). Estradiol promotes and progesterone reduces anxiety-like behavior produced by nicotine withdrawal in rats. *Psychoneuroendocrinology*, 119: 104694. PMID:32540678.
9. Richardson, J.R., **O'Dell, L.E.**, and Nazarian, A. (2020). Examination of nicotine and saccharin reward in the Goto-Kakizaki diabetic rat model. *Neuroscience Letters*. 721: 134802. PMID:32036029.
10. Uribe, K., Correa, V.L., Pinales, B.E., Flores, R.J., Cruz, B., Shan, Z., Bruijnzeel, A.W., Khan, A.M., and **O'Dell, L.E.** (2020). Overexpression of corticotropin releasing factor in the nucleus accumbens enhances the reinforcing effects of nicotine in female versus male rats. *Neuropsychopharmacology*, 45: 394-403. PMID:31614362.
11. 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: 1-10. PMID:31325431.
12. 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*, 22: 213-223. PMID:30958557.
13. 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.
14. 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
15. 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.
16. 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.
17. 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.

18. 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.
19. 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.
20. 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.
21. 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.
22. **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.
23. 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.
24. 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.
25. **O'Dell, L.E.**, Natividad, L.A., Pipkin, J.A., Roman, F., Torres, I.D., Juado, 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.
26. 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.
27. 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.
28. 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.
29. **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.
30. 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.
31. 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.
32. 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. PMID:23472122.

33. 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.
34. 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. PMID:3444240.
35. **O'Dell, L.E.** (2011). Nico-teen: Neural substrates that mediate adolescent tobacco abuse. *Neuropsychopharmacology, Hot Topics issue*, 36:356-357. PMID:3055509.
36. 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.
37. 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.
38. 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_{2C} receptor null mutation on physiology and behavior associated with nigrostriatal dopamine pathway function. *The Journal of Neuroscience*, 29:8156-8165. PMID:3077993.
39. 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.
40. 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.
41. **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
42. **O'Dell, L.E.** (2009). A psychobiological framework of the substrates that mediate nicotine use during adolescence. *Neuropharmacology*, 56:263-278. PMID:18723034.
43. 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.
44. 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.
45. 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.
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49. 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.
50. **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. PMID:2846728.
51. **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.
52. **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.
53. **O'Dell, L.E.**, Manzardo, A., Polis, I., Stouffer, D.G., and Parsons L.H. (2006). Biphasic alterations in serotonin_{1B} (5-HT_{1B}) receptor function during abstinence from extended cocaine self-administration. *Journal of Neurochemistry*, 99:1363-1376. PMID:17074068.
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55. 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
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59. 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.
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ABSTRACTS

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INVITED ORAL PRESENTATIONS

- 8/27/21 Professor, scientist, mentor, and mom: Integrating the personal and the professional. *Joint NIDA, NIAAA, and NIMH Diversity Supplement Trainee Meeting*, Hosted virtually.

- 6/10/2021 Science as a platform to promote diversity and study nicotine use in vulnerable populations. *Interdisciplinary Research Institute, University of Southern California, Pasadena, CA.*
- 2/17/2021 Neural mechanisms of nicotine use in vulnerable populations: Science as a platform to promote diversity. *Department of Neuroscience, Temple University, Hosted virtually.*
- 2/4/2021 Science as a platform for promoting diversity: Nicotine use in vulnerable populations. *National Advisory Council for the NIAAA Advisory Council, Hosted virtually.*
- 10/9/2020 Nicotine use in vulnerable populations: Science as a platform to promote diversity. *Office for Training, Research and Education in the Sciences Biomedical Seminar Series, University of California San Marcos, Hosted virtually.*
- 7/6/2020 Rigor, reproducibility, and scientific career paths. *Center for the Advancement of Students and Alumni (CASA), Georgia State University, Hosted virtually.*
- 11/15/2019 Graduate Student Expo Plenary Speaker, *University of Cincinnati, College of Medicine, Cincinnati, OH.*
- 6/16/2019 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 Columbia, 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, 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 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. *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- 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 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. Shawn Melvin Bates, Ph.D., Assistant Professor, Psychology Department, California State University Chico (2021-present). Faculty mentor for tenure and promotion.
2. Alexander Freidman, Ph.D., Assistant Professor, Biological Sciences, UTEP (2020-present). Faculty mentor for tenure and promotion.
3. Ian Mendez, Ph.D., Assistant Professor, Pharmaceutical Sciences, UTEP (2018-present). Faculty mentor for tenure and promotion.
4. Fatima Alshbool, Ph.D., Assistant Professor, Pharmaceutical Sciences, UTEP (2017-2020). External faculty mentor for tenure and promotion. Dr. Alshbool is an Assistant Professor in the Rangel College of Pharmacy at Texas A&M University.
5. Akiko Shimamoto, Ph.D., Assistant Professor, Department of Neuroscience and Pharmacology, Meharry Medical College (2016-present). External faculty mentor for tenure and promotion.
6. Sergio Iñiguez, Ph.D., Associate Professor, Department of Psychology, California State San Bernardino (2015-2019). External faculty mentor as part of the Early Career Institute in Neuroscience. Dr. Iñiguez was awarded tenure at UTEP.
7. Nick Gilpin, Ph.D., Assistant Professor, Department of Physiology, Louisiana State University (2011 to 2016). External mentor for tenure and promotion. Dr. Gilpin was awarded tenure.
8. Oralia Loza, Ph.D., Assistant Professor, College of Health Sciences, UTEP (2011-2016). 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 (2017-2021).
2. Victor Correa, Ph.D., Post-Doctoral Fellow, Primary Mentor (2015-2018). Dr. Correa is a staff member in the NIH Office of Intramural Training and Education.

3. Luis Carcoba, Ph.D., Post-Doctoral Fellow, Primary Mentor (2012-present). Dr. Carcoba is a Research Assistant Professor at UTEP.
4. Annie Whitaker, Ph.D., External Mentor in a National Hispanic Science Network training program (2014-2016). 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 (2008-2012). 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:

UTEP Psychology Department

1. Sebastian Ortegon, Primary Mentor and Master's Thesis Committee Chair (2021 to present).
2. Priscilla Giner, Co-Mentor with Dr. Ian Mendez (2021 to present).
3. Veronika Espinoza, Primary Mentor and Master's Thesis Committee Chair (2019 to present). First year presentation, "Sex differences in the brain mechanisms that promote nicotine withdrawal" was completed 10-29-20. She was awarded the National Hispanic Science Network Outstanding Student Award in 2021.
4. Michelle Martinez, M.A., Master's Thesis Committee Member (2020-2021). Master's thesis title, "Effects of repeated nicotine vapor exposure and withdrawal on somatic signs, anxiety-like behavior, and brain reward thresholds in rats" was completed 4-23-2021.
5. Valeria Garcia, M.A., Master's Thesis Committee Member (2020-2021). Master's thesis title, "A proposed mechanism for stimulant-induced behavioral sensitization involving the transporter VMAT" was completed 4-23-2021.
6. Francisco Flores, M.A., Ph.D., Master's Thesis and Dissertation Committee Member (2017-2020). Master's thesis, "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. Dissertation title, "Juvenile fluoxetine treatment mediates an anxiogenic phenotype that is ameliorated by its re-exposure in adulthood" was completed 5-26-2020.
7. Israel Garcia, M.A., Master's Thesis and Dissertation Committee Member (2019-present). Master's title, "Ketamine pre-exposure does not influence later-life responses to reward-related stimuli in female C57BL/6 mice" was completed 8-4-2020.
8. Kevin P. Uribe, M.A., Ph.D., Primary Mentor and Dissertation Committee Chair (2015-2020). Recipient of a NIH Ruth Kirschstein Pre-Doctoral Fellowship (F31). Awarded the National Hispanic Science Network Outstanding Graduate Student Award in 2018. Dissertation title, "Sex differences in the mechanisms that modulate the neurochemical effects of nicotine" was completed 11-19-2020. Dr. Uribe is a post-doctoral fellow at the University of Texas at Austin.
9. Bryan Cruz, M.A., Ph.D., Primary Mentor and Master's Thesis and Dissertation Committee Chair (2015-2020). Master's title, "Examination of the role of insulin in modulating the reinforcing effects of nicotine in a rodent model of diabetes" was completed 5-21-2018. Dissertation title, "Insulin restores the neurochemical effects of nicotine in the mesolimbic pathway of diabetic rats" was completed 5-18-2020. Awarded the National Hispanic Science Network Outstanding Graduate Student Award in 2019. Dr. Cruz is a post-doctoral fellow at Scripps Research Institute.
10. Rodolfo J. Flores, M.A., Ph.D., Primary Mentor and Master's Thesis and Dissertation Committee Chair (2014-2019). Master's title, "Characterization of sex differences in the reinforcing effects of nicotine" was completed 3-23-2017. Dissertation title, "Examination of sex differences and the role of ovarian hormones in modulating nicotine withdrawal in rats" was completed 8-2-2019. Awarded the National Hispanic Science Network Outstanding Graduate Student Award in 2017. Dr. Flores is a post-doctoral fellow at NIMH.

11. Joseph A. Pipkin, M.A., Ph.D., Primary Mentor and Dissertation Committee Chair (2012-2016). Dissertation title, “Examination of the rewarding effects of nicotine and the negative effects of withdrawal in a rodent model of diabetes” was completed 11-29-2016. Dr. Pipkin is an Assistant Professor in the Department of Psychology at Imperial Valley College, Imperial Valley, CA.
12. Jeremiah Ramos, M.A., Master’s Thesis Committee Member (2016-2017). Master’s title, “The impact of dopaminergic lesions on cognition: Insights of non-motor Parkinson’s disease symptomatology” was completed 4-9-2017.
13. Mabel Terminel, M.A., Master’s Thesis Committee Member (2014-2015). Master’s, “Dopamine regulation of disengagement at the basal ganglia circuitry” was completed 6-11-2015.
14. Alice Hernandez, M.A., Master’s Thesis Committee Member (2014-2015). Master’s title, “Electrical stimulation evokes exocytosis-like dopamine release and rotational behavior in vivo” was completed 5-13-2015.
15. Oscar V. Torres, M.A., Ph.D., Primary Mentor and Master’s Thesis and Dissertation Committee Chair (2005-2013). Master’s title, “Developmental differences to the rewarding effects of nicotine” was completed 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 an Associate Professor at Mesa Community College in San Diego, CA.
16. Luis A. Natividad, M.A., Ph.D., Primary Mentor and Master’s Thesis and Dissertation Committee Chair (2005-2012). Master’s 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 Ruth Kirschstein Pre-Doctoral Fellowship (F31). Awarded the National Hispanic Science Network Outstanding Student Award and the Diana Natalicio Graduate School Fellowship. Dr. Natividad is an Assistant Professor in the Department of Pharmacology at The University of Texas at Austin.

UTEP Biological Sciences Department:

1. Ashley Payan, Ph.D., Dissertation Committee Member, Dissertation title, “Development and characterization of FKBP52-specific inhibitors for the treatment of castration-resistant prostate cancer” was completed 4-7-2021.
2. Nayeli G. Reyes-Nava, M.A., Dissertation Committee Member, Dissertation proposal title, “Functional gabral in development” was completed 5-18-2020.
3. Jameel Hamdan, Ph.D., Dissertation Committee Member, Dissertation title, “Effects of Early Life Stress on Addiction Mechanisms and Behaviors in Adulthood” was completed 5-29-2020.
4. Michelle Sanchez, M.A., Master’s Thesis Committee Member, Master’s title, “Differences in M1 and M2 macrophage subtypes between the sexes determines susceptibility to Francisella tularensis infection” was completed 12-6-2019.
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 sensorimotor 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 completed 11-21-2017.
7. Chris D’Arcy, Ph.D., Co-Mentor and Dissertation Committee Member, Dissertation title, “Stress modulation of methamphetamine escalation in rats” was completed 7-27-2015.

8. Sarah Chenausky, M.A., Master's Thesis Committee Member, Master's title, "Structural and functional organization of hindbrain regions that receive vagal sensory input and that respond to glycemic challenge" was completed 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, Dissertation title, "Regulation of the glycine transporter1 by PKC-alpha dependent ubiquitination" was completed 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, Master's 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, Master's 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, Master's title, "The effect of exogenous leptin on murine dendritic cells' morphology and function" was completed 8-3-2009.
16. Samantha Chagra, M.A., Master's Thesis Committee Member, Master's title, "Effects of chronic stress on neuronal pathways involved in feeding" was completed 12-4-2007.
17. Shuwen Liang, Ph.D., Dissertation Committee Member, Dissertation 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, Master's title, "Neocortical proteome comparison of socially conditioned rats with various odors" was completed 8-2-2005.
19. Oscar Sanchez, M.A., Master's Thesis Committee Member, Master's title, "Differential effects of in utero exposure to methanesulfonyl fluoride (MSF) on two different spatial memory tasks" was completed 5-28-2005.

The Scripps Research Institute:

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

Texas Tech University:

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

Interdisciplinary Research Training Institute (IRTI):

1. Alejandra Jacotte-Simancas, Ph.D., External Mentor in the IRTI training program (2021-present). Dr. Jacotte-Simancas is a post-doctoral fellow in the Department of Physiology, Louisiana State University in New Orleans, LA.
2. Natalia A. Quijano-Cardé, 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.
3. Erika Perez, Ph.D., External Mentor in the IRTI training program (2012-2014). Dr. Perez was a post-doctoral fellow in the Department of Neuroscience at the University of Pennsylvania. Dr. Perez is an Assistant Professor of Neuroscience at Xavier University in New Orleans, LA.

University of Texas Medical Branch:

1. Elizabeth Crofton, Ph.D., External Dissertation Committee Member, Dissertation title, “Cellular mechanisms of environmental enrichment: Novel discovery-based strategies for target identification for neuropsychiatric disorders” was completed 7-11-2017.

UTEP Undergraduate Mentees

1. Hugo Tejada, 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. 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 an Assistant Professor in the Department of Neuroscience at The University of Alabama.
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, R.N., (7-2009 to 8-2012) Undergraduate student volunteer and research technician. Ivan 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, M.A., Ph.D., (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 symposium of the UTEP summer programs. Rodolfo joined my laboratory as a graduate student.
18. Christian Tejada (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., Ph.D., (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 graduated with her Ph.D. in Experimental Psychology from Tufts University.
20. Dr. Sarah Woldermariam (6-2014 to 8-2014) Undergraduate student who was a part of our summer training program in neuroscience. Sarah completed her medical degree from St George's University in Grenada in 2020.
 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 8-2017) Undergraduate student volunteer and NIDA summer Fellow in 2016 at University of Arkansas Medical School. Robert is a post- baccalaureate student at the Texas Tech University Health Sciences Center.
 28. Evangelina Espinosa, M.A. (6-2016 to present) Undergraduate student volunteer as part of the RISE program. Eva is a graduate student in Public Health at Texas Tech University Health Sciences Center.
 29. Candy Ramirez (6-2016 to 8-2016) Undergraduate student who was a part of our summer training program in neuroscience. Candy is an undergraduate student in the Department of Neuroscience at Smith College.
 30. Israel Garcia, M.A. (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 was a post-baccalaureate fellow at the NIH/NIDA and is currently in medical school at the University of San Francisco.
 32. Melissa Ibarra (6-2015 to 5-2018) Undergraduate student and laboratory manager who was a part of our summer training program in neuroscience. Melissa is in the Nurse Practitioner Program at the University of Texas at Austin.
 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. Grace is a graduate student in Immunology at Georgia State University.
 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 6-2020) Undergraduate student volunteer and research technician. Paola was funded by a Diversity supplement from NIDA. Paola is a medical student in Puerto Rico.
 36. Montserrat Garcia-Arreguin (1-2018 to 8-2020) Undergraduate student who was part of the BUILD program and completed her honors thesis in my laboratory. Montserrat is a graduate student in the Department of Neuroscience at the University of Pennsylvania.
 37. Tania Miramontes (1-2018 to 8-2019) Undergraduate student who was part of the BUILD program. She completed her undergraduate honors thesis in my laboratory. Tania is a graduate student in Neuroscience at the Oregon Health Sciences Center.

38. Messiyah Stevens (5-2019-7-2019) Undergraduate student who was funded by a supplement from the NIDA Summer Training Program.
39. Priscilla Giner (5-2018 to 8-2021) Undergraduate student who is part of the RISE program. Priscilla joined the UTEP graduate program in Behavioral Neuroscience in 2021.
40. Diana Barraza (6-2019 to 6-2020) Undergraduate student volunteer. Diana is a graduate student in the Public Health program at UTEP.
41. Sebastian Ortegon (6-2019 to 8-2021) Undergraduate student who was a part of our summer training program in neuroscience. Sebastian joined the UTEP graduate program in Behavioral Neuroscience in 2021.
42. Andrea Crespo (6-2019 to 12-2020) Undergraduate student volunteer. Andrea is a graduate student at the UTEP in Clinical Psychology.
43. America Dominguez (1-2020 to 12-2020) Undergraduate student volunteer.
44. Alec Rodela (6-2019 to present) Undergraduate student volunteer.
45. Isabella Liano (6-2020 to present) Undergraduate volunteer who is part of the UTEP Meritus program.

PROFESSIONAL ORGANIZATIONS

College on Problems of Drug Dependence Member (Membership Committee Member 2014)
 National Hispanic Science Network on Drug Abuse (Early Career Panel Chair 2010-2011, Steering Committee Member 2016-present, Conference Chair 2017 and 2020)
 Research Society on Alcoholism Member
 Society for Neuroscience Member
 Society for Research on Nicotine and Tobacco Member

GRANT REVIEW COMMITTEES

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|-----------|---|
| 2016-2019 | Member of the Center for Scientific Review study section, <i>Neurobiology of Motivated Behavior (NMB)</i> . |
| 2016 | Reviewer for the <i>Tobacco-Related Disease Research Program (TRDRP)</i> of The State of California. |
| 2015 | Reviewer for the Center for Scientific Review special emphasis panel, <i>Summer Research Experience Programs (ZNS1 SRB-E05)</i> . |
| 2014 | Reviewer for the Center for Scientific Review study section, <i>Neurobiology of Motivated Behavior (NMB)</i> . |
| 2014-2013 | Reviewer for the Center for Scientific Review panel, <i>Tobacco Control Regulatory Research (PAR 12-267)</i> . |
| 2014 | Reviewer for the Center for Scientific Review panel, <i>Fellowships: Behavioral Neuroscience (ZRG F02A-J20L)</i> . |
| 2013 | Reviewer for the <i>Arizona Institute for Mental Health Research Board</i> |
| 2012 | Reviewer for Center for Scientific Review special emphasis panel, <i>Specialized Centers of Research on Sex Differences</i> . |
| 2010 | Reviewer on the Center for Scientific Review special emphasis panel, <i>Risk, Prevention and Health Behavior</i> . |
| 2009 | Reviewer on the Center for Scientific Review special emphasis panel, <i>Motor Function, Speech Rehabilitation</i> . |
| 2009-2013 | Member of the Center for Scientific Review study section, <i>Biobehavioral Regulation of Learning and Ethology (BRLE)</i> . |

- 2008 Reviewer for the Department of Defense American Institute of Biological Sciences Peer Review Medical Research Program panel, *Alcoholism, Drug Abuse and Social Work*
- 2008 Reviewer for the Canadian Tobacco Control Research Initiative.

SERVICE ACTIVITIES

Departmental Service:

- 2018-present Behavioral Neuroscience Area Director
- 2015-2019 Course Evaluation Coordinator
- 2017 and 2012 Performance Annual Review Form Committee Member; Chair in 2012
- 2014 Behavioral Neuroscience Faculty Search Committee Co-Chair
- 2013-2019 Psychology Department Facebook Manager
- 2010-2013 Editor of the Psychology Department Newsletter
- 2009-2015 Graduate Program Committee Member
- 2007 Departmental Chair Search Committee Member

University Service:

- 2020-present Office of Research and Sponsored Projects Proposal Development Team
- 2015-present Advisory Board Member of the College of Undergraduate Research Initiatives Program
- 2017-2018 Dean of the College of Liberal Arts Search Committee Member
- 2013-2014 College of Liberal Arts Tenure and Promotion Committee Member
- 2013-present Animal Research Council Member
- 2013 Attending Veterinarian Search Committee Member
- 2012-2019 Institutional Animal Care and Use Committee Member
- 2010 Neuroscience Faculty Search Committee Member for the Department of Biology
- 2009 and 2010 Graduate School Outstanding Dissertation Selection Committee Member
- 2007 Neuroscience Faculty Search Committee Member for the Department of Biology
- 2006 Dean of College of Science Search Committee Member

External Service:

- 2021-present Member of the NIDA Board of Scientific Directors
- 2021-present External Advisory Board Member for the Scripps Research Institute T32 Training Program in Neuroscience
- 2020-present External Advisory Committee Member for the Ponce Medical School Foundation Specialized Center in Health Disparities RCMi Program.
- 2020-present External Advisory Committee Member for the University of Michigan T32 Graduate Training Program in Neuroscience
- 2020-present Member of the NIAAA Advisory Council
- 2019-present External Advisory Committee Member for the Arizona State Undergraduate Research Experience (WINURE) Program
- 2018-present Member of the NIAAA Advisory Council Working Group: Diversity and Health Disparities Biomedical Workforce
- 2017-present Steering Committee Member of the National Hispanic Science Network on Drug Abuse; Served as Chair of the Early Career Leadership Committee in 2010; Co-chaired the annual meeting in 2017 and 2020
- 2008-present Executive Committee Member of the 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.

2015-2019 Committee Member of the Endowment Fund for Racial and Ethnic Diversity
2014-2016 Rio Grande Society for Neuroscience Chapter Member; Secretary in 2014
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