

## Curriculum Vita

### **Laura Elena O'Dell, Ph.D.**

(last updated in 1/2011)

#### **Personal Information**

Current Position: Associate Professor  
Current Address: The University of Texas at El Paso (UTEP)  
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#### **Education**

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

#### **Presidential Award**

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

#### **University Honors**

2008 *Outstanding Performance Award* in The College of Liberal Arts, given by the UTEP Office of Research and Sponsored Projects.  
2007 *Outstanding Young Investigator Award* in The College of Liberal Arts, given by the UTEP Office of Research and Sponsored Projects.

#### **Travel Awards**

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

## **Funded Grants**

### ***Current Support***

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

Role: Primary Investigator; Agency: NIDA; Type: R01 (DA021274); Total Costs: \$1,563,874; Period: 7/1/07-6/30/11

Goals: To examine the neurochemical mechanisms that mediate developmental and sex differences to the rewarding and aversive effects of nicotine.

#### *Presidential Early Career Award for Scientists and Engineers (PECASE)*

Role: Primary Investigator; Agency: NIDA; Type: 5-year extension of R01 (DA021274); Total Costs: \$600,000; Period: 6/31/11-7/1/13

Goals: The PECASE award from the Executive Office of Science and Technology provides a 5-year extension of my R01 grant entitled, "Nico-teen: Mechanisms of Nicotine Reward and Withdrawal During Adolescence." However, due to the year in which the award was granted (Y2), there will only be 2 additional years of extended funding to this project.

#### *Supplement to Nico-teen: Mechanisms of Nicotine Reward and Withdrawal During Adolescence*

Role: Primary Investigator; Agency: NIDA; Type: R01 (DA021274-02S1); Total Costs: \$213,079; Period: 6/1/08-3/31/11

Goals: To support a post-doctoral trainee in their research endeavors involving the neural mechanisms of nicotine withdrawal.

#### *Mechanisms of developmental sensitivity to nicotine withdrawal*

Role: Mentor; Agency: NIDA; Type: F31 (DA021133); Total Costs: \$78,495; Period: 6/1/08-5/31/11

Goals: To support a pre-doctoral trainee (Luis Natividad) in his research endeavors involving the neurochemical mechanisms that mediate developmental sensitivity to nicotine dependence.

#### *National Institute on Drugs of Abuse Summer Research Program*

Role: Mentor; Agency: NIDA; Type; R01 (DA021274-03S1); Total Costs: \$11,880; Period: 6/1/09-8/15/09

Goals: To provide support for two students to work on a summer research project. The students were given the opportunity to learn new research skills on projects related to the mechanisms of developmental sensitivity to nicotine dependence.

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

Role: Participating Investigator; Agency: Laboratory Equipment Repair and Rehabilitation (LERR) Program; Type: Equipment Grant; Total Costs: \$500,000; Period: FY 2011

Goals: This was a joint proposal between UTEP and the UT Health Science Center at San Antonio. The 3 participating investigators developed a plan that will codify a major collaborative effort that capitalizes upon our collective strengths in the neural basis of diabetes and drug addiction. Our equipment request will provide resources to generate important information in our converging lines of research on diabetes and addiction.

## ***Previous Support***

### *Neurobehavioral correlates of nicotine withdrawal in adult versus adolescent rats*

Role: Primary Investigator; Agency: NSF; Type: Support of Mentors and Students Program (DUE 04-26266); Total Costs: \$10,000; Period: 5/1/05-7/31-05

Goals: To provide support for a student and mentor working together on a summer research project. The project examined the neural and behavioral mechanisms of developmental sensitivity to nicotine dependence.

### *Effects of Nicotine Withdrawal During Adolescence*

Role: Primary Investigator; Agency: NIGMS Support of Continuous Research Excellence Program; Total Costs: \$476,792; Period: This grant was awarded but not funded on the basis of having just received an R01 grant immediately before funding was released for this program which only supports new investigators that do not have a R01 grant.

### *Nicotine Self-Administration in an Animal Model*

Role: Co-Investigator; Agency: Tobacco-Related Disease Research Program (California); Type: 12RT-0099; Total Costs: \$675,195; Period: 7/1/03-6/30/06

Goals: To characterize the acquisition of unlimited access to nicotine using the intravenous self-administration model and the transition of self-administration to nicotine dependence.

### *Minority Neuroscience Training Program*

Role: Graduate Fellow; Agency: National Institute on Mental Health; Type: T32 (MH19185); Period: 7/1/93-8/2/96

Goals: To characterize the role of dopamine (D1 and D2) receptor subtypes in mediating the rewarding and stimulant effects of cocaine in rats.

## **Publications**

1. O'Dell, L.E. (2011). Nico-teen: Neural substrates that mediate adolescent tobacco abuse. *Neuropsychopharmacology, Hot Topics issue*, 36:356-357.
2. 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.
3. 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.
4. Abdallah, L., Bonasera, S.J., Hopf, W., O'Dell, L.E., Giorgetti, M., Jongsma, M., Carra, S., Esposito, E., Parsons, L.H., Bonci, A., Tecott, L.H. (2009). Impact of 5-HT<sub>2C</sub> receptor null mutation on physiology and behavior associated with nigrostriatal dopamine pathway function. *The Journal of Neuroscience*, 29:8156-8165.
5. Torres, O.V., Natividad, L.A., Tejada, H.A., Van Weelden, SA., 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.
6. 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.
7. 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.
  8. O'Dell, L.E. (2009). A psychobiological framework of the substrates that mediate nicotine use during adolescence. *Neuropharmacology*, 56: 263-278.
  9. Richardson, H.N., Lee, S.Y., O'Dell, L.E., Koob G.F., 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.
  10. Torres, O.V., Natividad, L.A., Tejada, H.A., 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.
  11. Roberto, M., Gilpin, N.W., O'Dell, L.E., Cruz, M.T., Morse A.C., Siggins, G.R., Koob G.F. (2008). Cellular and behavioral interactions of gabapentin with alcohol dependence. *The Journal of Neuroscience*, 28: 5762-5571.
  12. Specio, S.E., Wee, S., O'Dell, L.E., Boutrel, B., Zorrilla, E.Z., Koob, G.F. (2008). CRF1 receptor antagonists attenuate escalated cocaine self-administration in rats. *Psychopharmacology*, 196: 473-482.
  13. George, O., Ghazizadeh S., Azar M.R., O'Dell, L.E., E.P. Zorrilla, L.H. Parsons, H.N. Richardson, G.F. Koob. (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.
  14. 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.
  15. Thorsell, A., Rapunte-Canonigo, V., O'Dell, L.E. Chen S.A., King, A.R., Lekic, D., Koob G.F., 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.
  16. 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.
  17. 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.
  18. O'Dell, L.E., Chen, S.A., Specio, S.E., Paterson, N.E., Balster, R.L., Markou, A., E.P. Zorrilla, 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.
  19. O'Dell, L.E., Manzardo, A., Polis, I., Stouffer, D.G., Parsons L.H. (2006). Biphasic alterations in serotonin<sub>1B</sub> (5-HT<sub>1B</sub>) receptor function during abstinence from extended cocaine self-administration. *Journal of Neurochemistry*, 99: 1363-1376.

20. Funk, C.K., O'Dell, L.E., Crawford, E.L., Koob G.F. (2006). Corticotropin-releasing factor within the central nucleus of the amygdala mediates enhanced ethanol self-administration in ethanol-dependent rats during withdrawal. *Journal of Neuroscience*, 26: 11324-11332.
21. 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.
22. Chen, S.A., O'Dell, L.E., Lerner, K., Hoefer, M. Zorrilla, E.P., and Koob G.F. (2006). Unlimited access to heroin self-administration: Independent motivational markers of opiate dependence. *Neuropsychopharmacology*, 31: 2692-2707.
23. O'Dell, L.E., Bruijnzeel, A.W., Smith, R.T., Parsons, L.H., Merves, M.L., Goldberger, B.A., Koob, G.F., Markou, A. (2006). Diminished nicotine withdrawal in adolescent rats: Implications for vulnerability to addiction. *Psychopharmacology*, 186: 612-619.
24. O'Dell, L.E., Purdy, R.H., Covey, D.F., Richardson, H.N., Roberto, M., Koob, G.F. (2005). Epipregnanolone and a novel synthetic neuroactive steroid reduce alcohol self-administration in rats. *Pharmacology, Biochemistry and Behavior*, 81: 543-550.
25. 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., Weiss, F. (2005). Stress enhancement of craving during sobriety: A risk for relapse. *Alcoholism: Clinical and Experimental Research*, 29: 185-195.
26. O'Dell, L.E., Roberts, A.J., Smith, R.T., Koob, G.F. (2004). Enhanced operant self-administration of alcohol in Wistar rats receiving intermittent versus continuous alcohol vapor exposure. *Alcoholism: Clinical and Experimental Research*, 28: 1676-1682.
27. O'Dell, L.E., and Parsons, L.H. (2004). Serotonin<sub>1B</sub> receptors in the ventral tegmental area modulate cocaine-induced elevations of dopamine release in the nucleus accumbens. *Journal of Pharmaceutical and Experimental Therapeutics*, 11(2): 711-719.
28. O'Dell, L.E., Bruijnzeel, A.W., Ghosland, S., Markou, A. and Koob, G.F. (2004). Nicotine withdrawal in adolescent and adult rats. In: R.E. Dahl and L.P. Spear (Eds.), *Annals of the New York Academy of Sciences* (series title: Adolescent Brain Development: Vulnerabilities and Opportunities) New York Academy of Sciences, New York, 1021: 167-174.
29. Koob, G.F., Ahmed S.H., Boutrel, B., Chen, S.A., Kenny, P.J., Markou, A., O'Dell, L.E., Parsons, L.H., Sanna P. (2004). Neurobiological mechanisms in the transition from drug use to drug dependence, *Neuroscience and Biobehavioral Reviews*, 27: 739-749.
30. O'Dell, L.E., Alomary, A.A., Vallee, M., Koob, G.F., Fitzgerald, R.L., and Purdy, R.H. (2004). Ethanol-induced increases in neuroactive steroids in the rat brain and plasma are absent in adrenalectomized and gonadectomized rats. *European Journal of Pharmacology*, 484: 241-247.
31. Alomary, A.A., Vallee, M., O'Dell, L.E., Koob, G.F., Purdy, R.H., and Fitzgerald, R.L. (2003). Acutely-administered ethanol participates in testosterone synthesis and increases testosterone in the rat brain. *Alcoholism: Clinical and Experimental Research*, 27: 38-43.
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33. O'Dell, L.E., Li, R., Kreifeldt, M.J., George, F.R., and Ritz, M.C. (2000). Molecular mechanisms mediating genetic sensitivity to cocaine-induced convulsions. *Brain Research*, 863: 213-224.
34. O'Dell, L.E., Kreifeldt, M.J., George, F.R., and Ritz, M.C. (2000). The role of serotonin<sub>2</sub> receptors in mediating cocaine-induced convulsions. *Pharmacology, Biochemistry and Behavior*, 65: 677-681.
35. O'Dell, L.E., George, F.R., and Ritz, M.C. (2000). Antidepressant drugs appear to enhance cocaine-induced toxicity. *Experimental and Clinical Psychopharmacology*, 8: 133-141.
36. O'Dell, L.E., Kreifeldt, M.J., George, F.R., and Ritz, M.C. (1999). Serotonin<sub>2C</sub> receptors appear to mediate genetic sensitivity to cocaine-induced convulsions. *Psychopharmacology*, 146: 313-319.
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38. Tran-Nguyen, L.T.L., Fuchs, R.A., Coffey, G.P., Baker, D.A., O'Dell, L.E., and Neisewander, J.L. (1998). Time-dependent changes in cocaine-seeking behavior and extracellular dopamine levels in the amygdala during cocaine withdrawal. *Neuropsychopharmacology*, 19: 48-59.
39. Neisewander, J.L., Fuchs, R.A., O'Dell, L.E., and Khroyan, T.V. (1998). Effects of SCH-23390 on dopamine D1 receptor occupancy and locomotion produced by intraaccumbens cocaine infusion. *Synapse*, 30: 194-204.
40. Neisewander, J.L., O'Dell, L.E., Tran-Nguyen, L.T.Y., Castañeda E., and Fuchs, R.A. (1996). Dopamine overflow in the nucleus accumbens during extinction and reinstatement of cocaine self-administration behavior. *Neuropsychopharmacology*, 15: 506-514.
41. Baker, D.A., Khroyan, T.V. O'Dell, L.E., Fuchs, R.A., and Neisewander, J.L. (1996). Differential effects of intra-accumbens sulpiride on cocaine-induced locomotion and conditioned place preference. *Journal of Pharmacology and Experimental Therapeutics*, 279: 392-401.
42. O'Dell, L.E., Khroyan, T., and Neisewander, J.L. (1996). Dose-dependent characterization of the rewarding and stimulant properties of cocaine across intraperitoneal and intravenous routes of administration. *Psychopharmacology*, 123: 144-153.
43. Neisewander, J.L., O'Dell, L.E. and Redmond, J. (1995). Localization of dopamine receptor subtypes occupied by intra-accumbens administration of selective antagonists that reverse cocaine-induced locomotion. *Brain Research*, 671: 201-212.

## Abstracts

1. Natividad, L.A., Escalante, E., Mangubat, M., Chang-Sung., S., Torres., O.V., Friedman, T.C., and O'Dell, L.E., Age differences in food-intake and the weight-suppressant effects of self-administered nicotine. *Endocrine Society*, 2011.
2. Escalante, E., Natividad, L.A., Okoro, A., Friedman, T.C., and O'Dell, L.E., The rewarding effects of nicotine are enhanced in diabetic rats. *American Diabetes Association*, 2011.
3. Torres, O.V., Natividad, L.A., Walker, E.M., Muñiz, A.K., Byers, D.M. and O'Dell, L.E. Behavioral, biochemical, and molecular indices of nicotine withdrawal: Differential impact of sex on stress-related markers. *Society for Neuroscience*, 2010.

4. Orfila, J.E., Torrez, I., Natividad, L.A., Castañeda E., and O'Dell, L.E. Cholinergic levels in the nucleus accumbens are enhanced in adolescent versus adult rats exposed to nicotine but are similar in both age groups following nicotine withdrawal. *Society for Neuroscience*, 2010.
5. Natividad, L.A., Torres, O.V., Tejeda, H.A., O'Dell, L.E. Adolescent nicotine exposure enhances the rewarding properties of nicotine in a graded manner during adulthood. *Society for Neuroscience*, 2010.
6. Valenzuela, V., Escalante, E., Natividad, L.A., and O'Dell, L.E. The rewarding effects of nicotine are enhanced in diabetic rats. *Annual Biomedical Research Conference for Minority Students*, 2010.
7. Orfila, J.E., Torrez, I., Natividad, L.A., Castañeda E., and O'Dell, L.E. Characterization of cholinergic transmission in the nucleus accumbens in adolescent versus adult rats experiencing nicotine withdrawal. *College on Problems of Drug Dependence*, 2010.
8. Orona, A.J., Muniz, A.K., and O'Dell, L.E. Differential effects of varenicline between ethanol dependent and non-dependent rats. *Behavior, Biology and Chemistry: Translational Research in Addiction Meeting*, 2010.
9. Orfila, J.E., Torrez, I., Natividad, L.A., Castañeda, E., and O'Dell, L.E. Cholinergic transmission in the nucleus accumbens is lower in adolescent versus adult rats experiencing nicotine withdrawal. *Behavior, Biology and Chemistry: Translational Research in Addiction*, 2010.
10. Escalante, E., Natividad, L.N., O'Dell, L.E. The rewarding effects of nicotine are enhanced in diabetic rats. *Behavior, Biology and Chemistry: Translational Research in Addiction*, 2010.
11. Torres, O.V., Natividad, L.A., Walker, E.M., Muñoz, A., and O'Dell, L.E. Nicotine withdrawal enhances anxiety-like behavior in female versus male rats. *Behavior, Biology and Chemistry: Translational Research in Addiction*, 2010.
12. Walker, E.M; Beas, B.S.; Muñoz, A.K.; Torres, O.V. and O'Dell, L.E. Female rats display enhanced rewarding and reduced aversive effects of ethanol relative to males and female rats lacking ovaries. *Behavior, Biology and Chemistry: Translational Research in Addiction*, 2010.
13. Natividad, L.A., Torres, O.V., Escalante, E., O'Dell, L.E. The rewarding effects of nicotine are enhanced in adolescent rats and adults that were pre-exposed to nicotine during adolescence *Behavior, Biology and Chemistry: Translational Research in Addiction*, 2010.
14. Orona, J.E., Muniz, A., Beas, B.S., and O'Dell, L.E. Varenicline appears to produce differential effects on ethanol intake in dependent and non-dependent rats. *Behavior, Biology and Chemistry: Translational Research in Addiction*, 2010.
15. O'Dell, L.E., A psychobiological framework of the substrates that mediate enhanced tobacco abuse during adolescence. *American College on Neuropsychopharmacology*, 2009.
16. Natividad, L.A., Roman, F., Torres, O.V., Tejeda, H.A., and O'Dell, L.E. Exposure to nicotine during adolescence alters intake of the drug later in adulthood. *National Hispanic Science Network on Drug Abuse*, 2009.
17. Torres, O.V., Muniz, A., Roman, F., Beas, B.S., Natividad, L.A., and O'Dell, L.E. Nicotine withdrawal is diminished during adolescence in female and male rats. *National Hispanic Science Network on Drug Abuse*, 2009.

18. Beas, B.S., Escalante, E., Torres, O.V., Walker, E.M., Orona J.A., O'Dell, L.E. The rewarding effects of alcohol are enhanced in female versus male rats. *National Hispanic Science Network on Drug Abuse*, 2009.
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20. Beas, B.S., Muniz, A., Orona, J.E., Torres, O.V., and O'Dell, L.E. The rewarding effects of alcohol are enhanced in female versus male rats. *Society for the Advancement of Chicano and Native American Scientists UTEP Research Expo*, 2009.
21. Natividad, L.N., Roman, F., Tejeda, H.A., Torres, O.V., Castañeda, E., and O'Dell, L.E. Nicotine withdrawal produces fewer decreases in extracellular dopamine levels in the nucleus accumbens of adolescent versus adult rats. *Behavior, Biology and Chemistry: Translational Research in Addiction*, 2009.
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25. Torres, O.V., Natividad, L.N., Byers, D.M., Tejeda, H.A., and O'Dell, L.E. Nicotine withdrawal enhances anxiety-like behavior and expression of stress-related genes in female versus male rats. *Behavior, Biology and Chemistry: Translational Research in Addiction*, 2009.
26. Natividad, L.N., Torres, O.V., Tejeda, H.A., Castañeda, E., and O'Dell, L.E. The neurochemical effects of nicotine withdrawal are different in adolescent and adult rats. *National Hispanic Science Network on Drug Abuse*, 2008.
27. Tejeda, H.A., Torres, O.V., Natividad, L.N., Orfila, J.R., Castañeda, E., and O'Dell, L.E. Stimulation of kappa opioid receptors elicits nicotine withdrawal in adult but not adolescent rats. *National Hispanic Science Network on Drug Abuse*, 2008.
28. Torres, O.V., Natividad, L.N., Tejeda, H.A., and O'Dell, L.E. The rewarding effects of nicotine are age-, hormone- and sex-dependent in rats. *National Hispanic Science Network on Drug Abuse*, 2008.
29. Natividad, L.N., Tejeda, H.A., Torres, O.V., Castañeda, E., and O'Dell, L.E. Robust developmental differences to the neurochemical effects of nicotine withdrawal are not observed following nicotine administration in adolescent versus adult rats. *Society for Neuroscience*, 2008.
30. Tejeda, H.A., Natividad, L.N., Torres, O.V., Castañeda, E., and O'Dell, L.E. The behavioral and neurochemical effects produced by kappa-opioid receptor stimulation are diminished in nicotine-dependent adolescent versus adult rats. *Society for Neuroscience*, 2008.
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- adults that display rewarding or aversive effects in a hormone-dependent manner. *Society for Neuroscience*, 2008.
32. Natividad, L.N., Tejada, H.A., Torres, O.V., and O'Dell, L.E. Diminished neurochemical effects of nicotine withdrawal in adolescent versus adult rats. *College on Problems of Drug Dependence*, 2008.
  33. Tejada, H.A., Torres, O.V., Natividad, L.N., Beas, B.S., and O'Dell, L.E. Stimulation of kappa-opioid receptors induces the behavioral effects of nicotine withdrawal in nicotine-dependent adult but not adolescent rats. *Society for Research on Nicotine and Tobacco*, 2008.
  34. Byers, D.M., Natividad, L.N., Tejada, H.A., Torres, O.V., and O'Dell, L.E. Developmental and sex differences in the expression of key molecular targets during nicotine withdrawal. *Society for Research on Nicotine and Tobacco*, 2008.
  35. Torres, O.V., Natividad, L. N., Tejada, H.A., and O'Dell, L.E. The rewarding effects of nicotine are enhanced during adolescence in both male and female rats. *Society for Research on Nicotine and Tobacco*, 2008.
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  37. Tejada, H. A., Natividad, L. N., Torres, O. V., and O'Dell, L. E. Stimulation of kappa-opioid receptors elicits nicotine withdrawal in adult but not adolescent rats. *Society for Neuroscience*, 2007.
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## Invited Oral Presentations

- 3/11/11 NICOTEEN: Neural substrates of tobacco addiction in adolescence. *Colloquium series in the Department of Pharmacology and Toxicology, University of Texas Medical Branch, Galveston, Texas.*
- 8/13/10 Age differences in the rewarding and weight suppressant effects of nicotine. *Charles Drew Medical School Brain Research Day Meeting.* Los Angeles, California.
- 6/15/10 Psychobiological factors that contribute to tobacco abuse during adolescence. *College on Problems of Drug Dependence, Scottsdale, AZ*
- 3/07/10 Psychobiological substrates that mediate age and sex differences to tobacco abuse. *Behavior, Biology and Chemistry: Translational Research in Addiction, San Antonio, Texas*
- 2/19/10 Mechanisms of Tobacco Abuse. *Medical Center of the Americans Research Advancement Symposia, Texas Tech Paul Foster School of Medicine.* El Paso, Texas
- 1/25/10 Health Disparity Research on Tobacco Abuse at UTEP. *Meeting with State Representative Daniel Branch, Chair of the Texas Higher Education Committee.* El Paso, Texas
- 9/03/2009 Mechanisms of vulnerability to nicotine addiction. *Meeting of the Commission to End Health Care Disparities and Grand Opening of the Biosciences Research Building at UTEP.* El Paso, Texas.
- 7/31/2009 The rewarding effects of nicotine are enhanced in an animal model of Type 1 diabetes. *Charles Drew Medical School Brain Research Day.* Los Angeles, California.
- 1/30/2009 Nico-teen: Psychobiological substrates that mediate tobacco use during adolescence. *Paul L. Foster School of Medicine, Texas Tech University.* El Paso, Texas.
- 1/09/2009 How does nicotine work in the brain? *El Paso Consortium on Tobacco Cessation Meeting.* El Paso, Texas.
- 5/20/2008 From trainee to independent investigator. *The National Institute on Drug Abuse Meeting on Research Development and Diversity Programs.* Silver Spring, Maryland.
- 3/28/2008 Developmental and sex differences in the expression of key molecular targets during nicotine withdrawal. *Society for Research on Nicotine and Tobacco.* Portland, Oregon.
- 10/16/2007 Developmental and sex differences to nicotine withdrawal: A behavioral and neurochemical approach to studying nicotine addiction. *Colloquium series in the Department of Physiology, Louisiana State University.* New Orleans, Louisiana.
- 6/25/2007 Molecular targets of nicotine withdrawal are differentially expressed in adolescent and adult rats. *College on Problems of Drug Dependence, Quebec City, Canada.*
- 5/8/2007 Oh Rats! Implications for adolescent tobacco use. *American Cancer Society and The National Institute on Drug Abuse Meeting on The Future of Youth Tobacco Cessation Research.* Rockville, Maryland.

- 4/13/2007 The neural basis of nicotine addiction. *El Paso Consortium on Tobacco Cessation Meeting*. El Paso, Texas.
- 3/16/2007 Nicotene: Developmental influences on the rewarding and aversive properties of nicotine in rats. *Colloquium series in the Department of Pharmacology and Neuroscience at Texas Tech University Health Science Center*. Lubbock, Texas.
- 2/22/2007 A translational approach to understanding gender, adolescence, and vulnerability to nicotine addiction. *Society for Research on Nicotine and Tobacco*. Austin, Texas.
- 9/16/2006 Differential sensitivity to the rewarding and aversive effects of nicotine during adolescence. *National Hispanic Science Network on Drug Abuse*. Phoenix, Arizona.
- 6/18/2006 Nicotine withdrawal is diminished in adolescent versus adult rats. *College on Problems of Drug Dependence*. Scottsdale, Arizona.
- 9/6/2005 Cocaine on the Brain: Serotonergic modulation of dopamine transmission. *Department of Pharmacology and Toxicology, The University of Texas at Austin*. Austin, Texas.
- 10/18/2004 The psychopharmacology of nicotine addiction. *American Association for Cancer Research*. Seattle, Washington.
- 2/21/2004 Nicotine dependence in adult and adolescent rats. *Society for Research on Nicotine and Tobacco*. Scottsdale, Arizona.
- 3/20/2003 Psychoneuroendocrine networks involved in ethanol-induced synaptic and behavioral alterations. *International Society of Psychoneuroendocrinology*. Pisa, Italy.
- 11/11/2002 Cocaine on the brain: Serotonergic modulation of dopamine transmission. *Department of Anatomy and Neurobiology Lecture Series, University of Kentucky*, Lexington, Kentucky.
- 6/09/2002 Characterization of nicotine intake, extinction, reinstatement and precipitated withdrawal using extended access to nicotine self-administration. *College on Problems of Drug Dependence*, Quebec City, Canada.
- 12/1/2001 The effects of a neuroactive steroid on ethanol self-administration in dependent and nondependent rats. *NIAAA Training Program Meeting entitled, Alcoholism: Toward an Integration of Basic and Clinical Research Training for the 21<sup>st</sup> Century*, Indianapolis, Indiana.
- 11/14/2001 Evidence for a functional upregulation of 5-HT<sub>1B</sub> receptors in the VTA following extended access to cocaine self-administration. *Society for Neuroscience*, San Diego, California.
- 4/10/2001 Cocaine on the brain: Serotonergic modulation of dopamine neurotransmission. *Seminar Series at The Scripps Research Institute, Department of Neuropharmacology*, La Jolla, California.
- 6/17/1999 Molecular mechanisms mediating genetic sensitivity to cocaine-Induced convulsions. *College on Problems of Drug Dependence*, Acapulco, Mexico.

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

## Teaching Experience

- 2005-present Faculty Member, The University of Texas at El Paso, courses taught include: *Drugs and Behavior, Psychobiology, Animal Learning and Behavior*, and *Neuroplasticity of Stress, Learning and Addiction, Ethics and Professional Development*, and *Grant Writing*. The last four courses are offered at the graduate level.
- 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, The University of Phoenix, San Diego Branch  
Extensive training in facilitative teaching strategies. Courses taught include: *Life Science, Introduction to Psychology, Critical Thinking and Decision Making*, and *Dependency and Addictions*.
- 1992-1993 Teaching Assistant, Department of Psychology, Arizona State University  
Taught *Research Methodology* and my responsibilities included lecturing and evaluating student experiments, exams, and written reports.

## Mentoring Activities

### *Post-doctoral trainee:*

1. Dr. James Orfila- Post-Doctoral Mentor (6-08 to present). Funded through the Minority Supplement in Diversity program at NIDA.

### *Graduate student committees:*

### Psychology Department

1. Luis Natividad- Doctorate Committee Chair (1-05 to present). Master's thesis title, "Characterization of the behavioral and neurochemical effects of nicotine withdrawal in adolescent and adult rats" was completed on April 30<sup>th</sup>, 2009. Awarded the Diversity in Neuroscience Fellowship from the American Psychological Association (6-06 to 7-07) and recipient of a NIH Ruth Kirschstein Pre-Doctoral Fellowship (6-08 to present). Awarded the

- National Hispanic Science Network Outstanding Student Award (10-25-09).
2. Oscar Torres- Doctorate Committee Chair (6-05 to present). Master's thesis title, "Developmental differences to the rewarding effects of nicotine" was completed on November 29, 2007.
  3. Ivan Torres- Doctorate Committee Chair (8-10 to present).

Biological Sciences Department

3. Oscar Sanchez- Master's Thesis Committee Chair, Thesis title, "Differential effects of in utero exposure to methanesulfonyl fluoride (MSF) on two different spatial memory tasks" was completed on May 28, 2005.
4. Jose Lozano- Master's Thesis Committee Member, Thesis title, "Neocortical proteome comparison of socially conditioned rats with various odors" was completed on August 2, 2005.
5. Shuwen Liang- Dissertation Committee Member, Thesis title, "Effect of diet and sex on changes in gene expression and behavioral responses to chronic stress" was completed on April 9, 2007.
6. Samantha Chagra- Master's Thesis Committee Member, Thesis title, "Effects of chronic stress on neuronal pathways involved in feeding" was completed on December 4, 2007.
7. Jaidee Zavala- Dissertation Defense Committee Member, Proposal title, "Effect of gender on neuronal pathways involved in acute and chronic stress" was completed on August 3, 2006.
8. Christine Delgado- Master's Thesis Committee Member, Thesis title, "The effect of exogenous leptin on murine dendritic cells' morphology and function" was completed on August 3, 2009.
9. Susana Barrera- Master's Thesis Committee Member, Thesis title, "Regulation of the glycine transporter1 by ubiquitination and sumoylation" was completed on March 3, 2011.

*Undergraduate laboratory members and volunteers:*

1. Hugo Tejada (5-06 to 9-08) Career Opportunities in Research Fellow and was awarded a Pre-doctoral Ford Foundation Fellow to conduct graduate studies at UTEP. Also awarded a Faculty Undergraduate Neuroscience Travel Award to from the Society for Neuroscience in 2007. Hugo completed his honors thesis in my laboratory and is currently a graduate student at The University of Maryland in their Neuroscience program.
2. Sofia Blanca Beas (5-07 to 8-09) Minority Access to Research Careers Fellow and was awarded a NIDA summer training fellowship in 2009. Sofia completed her honors thesis in my laboratory and is currently a graduate student at Texas A&M University in their Behavioral Neuroscience program.
3. Isabelle Villalobos (8-06 to 4-07) Undergraduate student volunteer.
4. Cecilia Brooke Chokla (6-07-9-07) Undergraduate student volunteer.
5. Paloma Alvarez (2-07 to 8-07) Undergraduate student volunteer.
6. Arturo Orona (1-06 to present) Graduate student volunteer.

7. Adrian Muniz (6-08 to present) 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.
8. Francisco Roman (3-08 to 8-09) Undergraduate Research Technician and was awarded a NIDA summer training fellowship. Paco is currently a pharmacy student at UT at Austin.
9. Evelyn Escalante (4-09 to present) Undergraduate student volunteer that began working in my laboratory as part of the Biology Undergraduate Research Scholars Program.
10. Ivan Torres (8-09 to 8-10) Undergraduate student volunteer who is now a graduate student in my laboratory.
11. Vanessa Valenzuela (6-10 to present) Undergraduate student volunteer as part of the Bridges to the Baccalaureate Program.
12. Jonathan Jackson (8-10 to present) Minority Access to Research Careers Fellow.

### **Professional Affiliations**

College on Problems of Drug Dependence Member  
International Behavioral Neuroscience Society Member  
International Society for Biomedical Research on Alcoholism Member  
National Hispanic Science Network on Drug Abuse (Steering Committee Member)  
Research Society on Alcoholism Member  
Society for the Advancement of Chicanos and Native Americans in Science  
Society for Neuroscience Member  
Society for Research on Nicotine and Tobacco Member

### **Journal Reviewer for the Following Journals**

Alcoholism Clinical Experimental Research  
Brain Research  
Journal of Neuroscience  
Journal of Pharmacological and Experimental Therapeutics  
Neuropsychopharmacology  
Neuropharmacology  
Neuroscience  
Neuroscience Letters  
Neurotoxicology and Teratology  
Nicotine and Tobacco Research  
Pharmacology, Biochemistry and Behavior  
Psychopharmacology

## **Grant Review Committees**

July 1-2, 2010- Served on the NIH Risk, Prevention, & Health Behavior special emphasis panel.

March 24, 2009-Served on the NIH Motor Function, Speech and Rehabilitation special emphasis panel.

February 2009 –present Serve as a permanent study section member on the CSR study section Biobehavioral Regulation, Learning and Ethology.

September 20-21, 2008-Served as an Ad Hoc Study Section Member for the Department of Defense American Institute of Biological Sciences Peer Review Medical Research Program on the Alcoholism, Drug Abuse, and Social Work Panel.

December 8, 2008-Served as a grant reviewer for the Canadian Tobacco Control Research Initiative for their Student Research grant competition, a program that supports young investigators in tobacco control research.

## **Service Activities**

### *UTEP Service Activities:*

2010-Editor of the UTEP Psychology Department Newsletter

2010-Neuroscience Faculty Search Committee for Department of Biological Sciences

2009 and 2010-Graduate School Outstanding Thesis and Dissertation Selection Committee

2008-Advisory Committee Member for the Career Opportunities in Research Program at UTEP

2007-Neuroscience Faculty Search Committee for Department of Biological Sciences

2007-Chair Search Committee for Department of Psychology

2006 and 2007 Dean of College of Science Search Committee

2006-Financial Oversight Committee for Office of Research and Sponsored Projects

### *External Service Activities:*

2010-present- Chair of the Early Career Leadership Committee and the Steering Committee of the National Hispanic Science Network. Responsibilities include managing committee goals, monthly conference calls, and planning various activities at the annual meeting such as the early career oral panel session.

2009-Co-chair of the annual meeting for The National Hispanic Science Network on Drug Abuse. Responsibilities included choosing panel speakers and topic of the conference.

2008-present-Advisory Committee of the NIH/NIDA Summer Interdisciplinary Research Training Institute (SIRTI). Responsibilities include consultation regarding the biomedical component of the curriculum and serving as a faculty member and mentor for selective fellows in the program.

2007 to present-Program Committee Member for The National Hispanic Science Network on Drug Abuse. Responsibilities included choosing the meeting speakers and reviewing abstracts.

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 meeting planning activities.

## Professional References

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