

Curriculum Vitae  
**Edward Castañeda**  
 (last update 09/15/2008)

**ADDRESS:** Department of Psychology  
 University of Texas at El Paso  
 El Paso, TX 79968  
 Phone: (915) 747-6558  
 ecastaneda9@utep.edu

**Home:**  
 605 Moondale Dr.  
 El Paso, TX 79912

**DATE OF BIRTH:** May 25, 1956

**PLACE OF BIRTH:** El Paso, Texas

**ACADEMIC BACKGROUND**

**Ph.D. (Psychobiology)**, University of Michigan, Ann Arbor, Michigan (1980-1987)

- Dissertation Co-chairs: Dr. Jill B. Becker and Dr. Terry E. Robinson

**M.A. (General Psychology)**, University of Texas at El Paso, El Paso, Texas (1978-1980)

- Thesis Chair: Dr. Don E. Moss

**B.S. (Psychology)**, University of Texas at El Paso, El Paso, Texas (1974-1978)

**PROFESSIONAL RESEARCH AND WORK EXPERIENCE**

2007	<b>Full Professor &amp; Chair</b> , Department of Psychology, University of Texas at El Paso
1996-2007	<b>Associate Professor</b> , Department of Psychology, Arizona State University
2001- present	<b>Affiliated Faculty</b> , Molecular and Cellular Biology Program, Arizona State University
Fall, 1996	<b>Adjunct Associate Professor</b> , Department of Psychology, University of Texas at El Paso
1990-1996	<b>Assistant Professor</b> , Department of Psychology, Arizona State University
1987-1990	<b>Postdoctoral Fellow</b> , Alberta Heritage Foundation for Medical Research Fellowship. Department of Psychology, University of Lethbridge (Sponsor: Dr. I.Q. Whishaw)
1980-1987	<b>Research Assistant</b> to Dr. Terry E. Robinson and Dr. Jill B. Becker, Department of Psychology (Psychobiology program), University of Michigan
1978-1980	<b>Research Assistant</b> to Dr. Don E. Moss, Department of Psychology (Psychobiochemistry Laboratory), University of Texas at El Paso
1977	<b>Diagnostic Assistant</b> for Dr. Guido Barrientos (Professor of Psychology, University of Texas at El Paso), Texas State Center for Mental Health and Mental Retardation

**PUBLICATIONS** (31)

Moss, D.E., McMaster, S.B., **Castañeda**, E. and Johnson, R.L. (1980) An automated method for studying stereotypical gnawing. Psychopharmacology, 69:267-269.

Becker, J.B., **Castañeda**, E., Robinson, T.E. and Beer, M.E. (1984) A simple in vitro technique to measure the release of endogenous dopamine and dihydroxyphenylacetic acid from striatal tissue using high performance liquid chromatography with electro-chemical detection. J. Neurosci. Methods, 11:19-28.

**Castañeda**, E., Robinson, T.E., and Becker, J.B. (1985) Involvement of nigrostriatal dopamine neurons in the contraversive rotational behavior evoked by electrical stimulation of the lateral hypothalamus. Brain Res., 327:143-151.

Robinson, T.E., Becker, J.B., Moore, C.J., **Castañeda**, E. and Mittleman, G. (1985) Enduring enhancement in frontal cortex dopamine utilization in an animal model of amphetamine psychosis. Brain Res., 343:374-377.

Mittleman, G., **Castañeda**, E., Robinson, T.E. and Valenstein, E.S. (1986) The propensity for non-regulatory ingestive behavior is related to differences in dopamine systems: Behavioral and biochemical evidence. Behav. Neurosci., 100:213-220.

Robinson, T.E., Becker, J.B., Young, E.A., Akil, H. and **Castañeda**, E. (1987) The effects of footshock stress on

regional brain dopamine metabolism and pituitary  $\beta$ -endorphin release in rats previously sensitized to amphetamine. Neuropharmacology, 26:679-691.

- Castañeda**, E., Becker, J.B. and Robinson, T.E. (1988) The long-term effects of repeated amphetamine treatment in vivo on amphetamine, KCl and electrical stimulation evoked striatal dopamine release in vitro. Life Sci., 42:2447-2456.
- Castañeda**, E., Whishaw, I.Q., Lermer, L. and Robinson, T.E. (1990) Dopamine depletion in neonatal rats: Effects on behavior and striatal dopamine release assessed by intracerebral microdialysis during adulthood. Brain Res., 508:30-39.
- Castañeda**, E., Whishaw, I.Q. and Robinson, T.E. (1990) Changes in striatal dopamine neurotransmission assessed with microdialysis following recovery from a bilateral 6-OHDA lesion: variation as a function of lesion size. J. Neurosci., 10:1847-1854.
- Robinson, T.E., **Castañeda**, E. and Whishaw, I.Q. (1990) Compensatory changes in striatal dopamine neurons following recovery from injury induced by 6-OHDA or methamphetamine: A review of evidence from microdialysis studies. Can. J. Psych.: special issue on recovery of function, 44:253-275.
- Castañeda**, E., Moss, D.E., Oddie, S.D. and Whishaw, I.Q. (1991) THC does not affect striatal dopamine release: microdialysis in freely moving rats. Pharmac. Biochem. Behav., 40:587-591.
- Castañeda**, E., Whishaw, I.Q. and Robinson, T.E. (1992) Recovery from lateralized neocortical damage: dissociation between amphetamine-induced asymmetry in behavior and striatal dopamine neurotransmission in vivo. Brain Res., 571:248-259.
- Whishaw, I.Q., Fiorino, D., Mittleman, G. and **Castañeda**, E. (1992) Do forebrain structures compete for behavioral expression?: Evidence from amphetamine-induced behavior, microdialysis, and caudate-accumbens lesions in medial frontal cortex damaged rats. Brain Res., 576:1-11.
- Whishaw, I.Q., **Castañeda**, E. and Gorny, B.P. (1992) Dopamine and skilled limb use in the rat: more severe bilateral impairments follow substantia nigra than sensorimotor cortex 6-hydroxydopamine injection. Behav. Brain Res., 47:89-92.
- Robinson, T.E., **Castañeda**, E. and Whishaw, I.Q. (1993) Effects of cortical serotonin depletion induced by 3,4-methylenedioxymethamphetamine (MDMA) on behavior, before and after additional cholinergic blockade. Neuropsychopharmacology, 8:77-85.
- Pellis, S.M., **Castañeda**, E., McKenna, M.M., Tran-Nguyen, L.T.L., and Whishaw, I.Q. (1993) The role of the striatum in organizing sequences of play fighting in neonatally dopamine-depleted rats. Neurosci. Lett., 158:13-15.
- Neisewander, J.L., **Castañeda**, E. and Davis, D.A. (1994) Dose-dependent differences in the development of reserpine-induced oral dyskinesia in rats: support for a model of tardive dyskinesia. Psychopharmacology, 116:79-84.
- Whishaw, I.Q., Gorny, B., Tran-Nguyen, L.T.L., **Castañeda**, E., Miklyaeva, E.I., and Pellis, S.M. (1994) Making two movements at once: impairments of movement, posture, and their integration underlie the adult skilled reaching deficit of neonatally dopamine-depleted rats. Behav. Brain Res., 61:65-77.
- Miklyaeva, E.I., **Castañeda**, E. and Whishaw, I.Q. (1994) Skilled reaching deficits in unilateral dopamine-depleted rats: impairments in movement and posture and compensatory adjustments. J. Neurosci., 14:7148-7158.
- Moss, D.E. and **Castañeda**, E. (1995) Automated methods of measuring gnawing behaviors. In: Motor Activity and Movement Disorders. P.R. Sanberg, K.P. Ossenkopp, M. Kavaliers (Ed.), Humana Press: Totowa, NJ, pp 175-194.
- Neisewander, J.L., **Castañeda**, E., Davis, D.A., Elson, H.J. and Sussman, A.N. (1996) Effects of amphetamine and 6-hydroxydopamine lesions on reserpine-induced oral dyskinesia. Eur. J. Pharmacol., 305:13-21.
- Tran-Nguyen, L.T.L., **Castañeda**, E. and MacBeth, T. (1996) Changes in behavior and monoamine levels in microdialysate from dorsal striatum after 6-OHDA infusions into ventral striatum. Pharmacol. Biochem. Behav., 55:141-150.
- Neisewander, J.L., O'Dell, L.E., Tran-Nguyen, L.T.L., **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.
- Friedman, S.D., **Castañeda**, E. and Hodge, G.K. (1998) Long-term monoamine depletion, differential recovery, and subtle behavioral impairment following methamphetamine-induced neurotoxicity. Pharmacol. Biochem. Behav., 61:35-44.
- Hagan, M.M., **Castañeda**, E., Sumaya-Smith, I.C., Fleming, S.M., Galloway, J. and Moss, D.E. (1998) The effect of hypothalamic Peptide YY on hippocampal acetylcholine release in vivo: Implications for limbic function in binge-eating behavior. Brain Res., 805:20-28.
- Duvauchelle, C.L., Ikegami, A., Asami, S., Robens, J., Kressin, K. and **Castañeda**, E. (2000) Effects of cocaine

context on Nacc dopamine and behavioral activity after repeated intravenous cocaine administration. *Brain Res.*, 862:49-58.

Duvauchelle, C.L., Ikegami, A. & **Castañeda**, E. (2000) Conditioned increases in behavioral activity and accumbens dopamine levels produced by intravenous cocaine. *Behav. Neurosci.*, 114:1156-1166.

**Castañeda**, E., Fleming, S., Paquette, M., Boat, K., Moffett, J., Stachowiak, E.K., Bloom, D.C. & Stachowiak, M.K. (2005) Gene therapy assessment in the hemiparkinson rat: drug-induced rotation is inadequate. *Physiol. Behav.*, 84(4):525-535.

Trujillo, K.A., **Castañeda**, E., Martínez, D. & González, G. (2006) Biological research on drug abuse and addiction in Hispanics: current status and future directions. *Drug and Alcohol Dependence*, 84S:S17-S28.

Chandler-Laney, P.C., **Castañeda**, E., Viana, J.B., Oswald, K.D., Maldonado, C.R. & Boggiano, M.M. (2007) A history of human-like dieting alters serotonergic control of feeding and neurochemical balance in a rat model of binge-eating. *Int. J. Eat. Disord.*, 40:136-142.

Chandler-Laney, P.C., **Castañeda**, E., Pritchett, C.E., Smith, M.L., Giddings, M., Artiga, A.I. & Boggiano, M.M. (2007) A history of caloric restriction induces neurochemical and behavioral changes in rats consistent with models of depression. *Pharmacol. Biochem. Behav.*, 87:104-114.

### **MANUSCRIPT SUBMITTED**

Paquette, M.A., Marsh, S.T., Hutchings, J.E. and **Castañeda**, E. (2008) Amphetamine-evoked rotation requires newly-synthesized dopamine at 14 days but not 1 day after intranigral 6-OHDA and is consistently dissociated from sensorimotor behavior.

### **MANUSCRIPTS IN PREPARATION**

Avila, I., Reilly, M.P., Posadas-Sánchez, D., Chavez, C. L., Banerjee, N., Sanabria, F., **Castañeda**, E. and Killeen, P. Modeling operant behavior in the Parkinsonian rat.

Eheart, D., Paquette, M.A., Baran, S.E., Cranston, K., Conrad, C.D. and **Castañeda**, E. Therapeutic efficacy of serotonin precursor loading to mitigate MDMA-induced neurotoxicity: rescue of serotonin neurons and treatment of anxiogenesis.

Avila, I., Bloom, D. C., Tran, R.K., Austin, S., Manfredsson, F., Banerjee, N., Chavez, C. and **Castañeda**, E. Transport of Herpes Simplex Virus Type-1 mutant defective in ICP4 in the nigrostriatal pathway.

### **NON-REFEREED PUBLICATION**

Trujillo, K.A., **Castañeda**, E., Martinez, D., Thompson, K. & González, G. (2003) Chapter 2: Neuroscience Research on Hispanic Drug Abuse. In: H. Amaro, & D.E. Cortés (Eds.) National Strategic Plan on Hispanic Drug Abuse Research: From Molecule to the Community. National Hispanic Science Network on Drug Abuse Publication. Funded by the Robert Wood Johnson Foundation.

### **PUBLISHED ABSTRACTS**

**Castañeda**, E., Robinson, T.E. and Becker, J.B. (1982) Electrical stimulation-induced rotational behavior: Involvement of the nigrostriatal dopamine system. Poster presented at the 12th Annual Society for Neuroscience Meetings, Minneapolis, Minnesota. *Society for Neuroscience Abstracts*, 8:360.

**Castañeda**, E., Becker, J.B. and Robinson, T.E. (1983) A simple technique for the in vitro measurement of endogenous dopamine release. Poster presented at the 13th Annual Society for Neuroscience Meetings, Boston, Massachusetts. *Society for Neuroscience Abstracts*, 9:997.

**Castañeda**, E., Becker, J.B., Wilcox, R. and Robinson, T.E. (1985) Sensitization to amphetamine is accompanied by enhanced striatal dopamine release. Poster presented at the 15th Annual Society for Neuroscience Meetings, Dallas, Texas. *Society for Neuroscience Abstracts*, 11:499.

Robinson, T.E., Becker, J.B., Moore, C.J., **Castañeda**, E. and Mittleman, G. (1985) Enduring enhancement in mesocortical dopamine utilization in an animal model of amphetamine psychosis. Poster presented at the

- 15th Annual Society for Neuroscience Meetings, Dallas, Texas. Society for Neuroscience Abstracts, 11:499.
- Castañeda**, E., Becker, J.B. and Robinson, T.E. (1986) Depolarization-induced striatal dopamine release in rats sensitized to amphetamine. Poster presented at the 16th Annual Society for Neuroscience Meetings, Washington, D.C. Society for Neuroscience Abstracts, 12:1141.
- Robinson, T.E., Becker, J.B., Young, E., Akil, H. and **Castañeda**, E. (1986) Neural and endocrine responses to footshock stress in rats sensitized to amphetamine. Poster presented at the 16th Annual Society for Neuroscience Meetings, Washington, D.C. Society for Neuroscience Abstracts, 12:1482.
- Castañeda**, E., Whishaw, I.Q. and Robinson, T.E. (1989) Residual extracellular dopamine concentrations in an animal model of Parkinson's disease: An in vivo intracerebral microdialysis study. Poster presented at the 1st International Symposium on Microdialysis and Allied Techniques, Indianapolis, Indiana. Current Separations, 9:104.
- Castañeda**, E., Whishaw, I.Q. and Robinson, T.E. (1989) Changes in extracellular dopamine concentrations measured by in vivo intracerebral microdialysis after dopamine depletion. Poster presented at the 19th Annual Society for Neuroscience Meetings, Phoenix, Arizona. Society for Neuroscience Abstracts, 15:559.
- Castañeda**, E., Whishaw, I.Q. and Oddie, S.D. (1990) Microdialysis and tissue levels of basal dopamine are unchanged after cortical lesions, but acute amphetamine-evoked efflux is elevated and dissociated from rotational behavior. Poster presented at the 20th Annual Society for Neuroscience Meetings, St. Louis, Missouri. Society for Neuroscience Abstracts, 16:133.
- Oddie, S.D., **Castañeda**, E., Moss, D.E. and Whishaw, I.Q. (1990) Delta-9-tetrahydrocannabinol does not affect efflux of mesotelencephalic dopamine as measured by in vivo microdialysis in freely moving rats. Poster presented at the 20th Annual Society for Neuroscience Meetings, St. Louis, Missouri. Society for Neuroscience Abstracts, 16:1101.
- Castañeda**, E., Fiorino, D., Mittleman, G. and Whishaw, I.Q. (1991) Extracellular monoamine levels are dissociated from changes in locomotor activity following medial prefrontal cortex ablation. Poster presented at the 21st Annual Society for Neuroscience Meetings, New Orleans, Louisiana. Society for Neuroscience Abstracts, 17:1247.
- Neisewander, J.L., **Castañeda**, E. and Davis, D.A. (1992) Reserpine-induced oral dyskinesia in rats: effect of dose and comparison to tetrabenazine. Poster presented at the 22nd Annual Society for Neuroscience Meetings, Anaheim, California. Society for Neuroscience Abstracts, 18:1071.
- Tran, L.T.L. and **Castañeda**, E. (1992) Nucleus accumbens dopamine depletions: proximate striatal and behavioral changes. Poster presented at the 22nd Annual Society for Neuroscience Meetings, Anaheim, California. Society for Neuroscience Abstracts, 18:721.
- Pellis, S.M., Whishaw, I.Q., McKenna, M.M. and **Castañeda**, E. (1992) The role of the striatum in organizing complex behaviors as revealed by play in neonatally 6-OHDA depleted rats. Poster presented at the 22nd Annual Society for Neuroscience Meetings, Anaheim, California. Society for Neuroscience Abstracts, 18:884.
- Li, Y.-H., **Castañeda**, E., Gustavson, C. & Gustavson, J. (1993) Long-term treatment with 17  $\beta$ -estradiol produces chronic weight loss and frequent shifts of food preferences in rat. Poster presented at the 23rd Annual Society for Neuroscience Meetings, Washington, D.C. Society for Neuroscience Abstracts, 19:1821
- Neisewander, J.L., Elson, H., **Castañeda**, E. & Davis, D.A. (1993) Reserpine-induced oral dyskinesia is attenuated by 6-hydroxydopamine lesions in rats. Poster presented at the 23rd Annual Society for Neuroscience Meetings, Washington, D.C. Society for Neuroscience Abstracts, 19:1830.
- Luevano, V., Rasmussen, E. & **Castañeda**, E. (1994) Comparison of intracranial and systemic administration of trimethyltin on hippocampal damage. Poster presented at the 24th Annual Society for Neuroscience Meetings, Miami Beach, Florida. Society for Neuroscience Abstracts, 20:1654.
- Castañeda**, E., Whishaw, I.Q., Davidson, M., Schuster, L., Daugherty, T. and Li, Y.-H. (1995) Changes in dialysis measures of striatal monoamines and amphetamine-evoked rotational behavior after electrolytic lesion of the nigrostriatal bundle. Poster presented at the 25th Annual Society for Neuroscience Meetings, San Diego, California. Society for Neuroscience Abstracts, 21:2090.
- Tran-Nguyen, L.T.L. and **Castañeda**, E. (1995) Relation between electrically evoked rotational behavior and dopamine overflow in the caudate nucleus and nucleus accumbens. Poster presented at the 25th Annual Society for Neuroscience Meetings, San Diego, California. Society for Neuroscience Abstracts, 21:1689.
- Duvauchelle, C.L., Kressin, K., Neisewander, J.L. and **Castañeda**, E. (1995) Conditioned place preference and locomotion, but no conditioned dopamine release after exposure to cocaine-paired environment. Poster presented at the 25th Annual Society for Neuroscience Meetings, San Diego, California. Society for Neuroscience Abstracts, 21:1957.
- O'Dell, L.E., Tran-Nguyen, L.T.L., **Castañeda**, E., Sussman, A.N. and Neisewander, J.L. (1995) Dopamine overflow in

- the nucleus accumbens of rats during extinction and reinstatement of cocaine self-administration. Poster presented at the 25th Annual Society for Neuroscience Meetings, San Diego, California. [Society for Neuroscience Abstracts](#), 21:712.
- Hagan, M.M., **Castañeda**, E., Fleming, S.M. and Moss, D.E. (1997) Peptide YY (PYY) infusion into the hypothalamus alters acetylcholine (ACh) release in the hippocampus (HPC). Poster presented at the Society for the Study of Ingestive Behavior, Baltimore, MD. July 16-19.
- Fleming, S.M., Boat, K.A., Moffett, J., Lieberman, A., **Castañeda**, E. and Stachowiak, M. (1997) Survival of transiently transfected fibroblasts and astrocytes expressing recombinant TH and  $\beta$ -GAL following transplantation into the rat striatum. Poster presented at the 27th Annual Society for Neuroscience Meetings, New Orleans, Louisiana. [Society for Neuroscience Abstracts](#), 23:1999.
- Hagan, M.M., **Castañeda**, E., Fleming, S.M., Galloway, J. and Moss, D.E. (1997) Hyperphagia evoked by hypothalamic infusion of Peptide YY (PYY) is accompanied by increased release of acetylcholine (ACh) in the hippocampus (HPC). Poster presented at the 27th Annual Society for Neuroscience Meetings, New Orleans, Louisiana. [Society for Neuroscience Abstracts](#), 23:256.
- Duvauchelle, C.L., Ikegami, A., Robens, J., Asami, S. and **Castañeda**, E. (1997) Importance of context in behavioral and neurochemical sensitization to cocaine. Poster presented at the 27th Annual Society for Neuroscience Meetings, New Orleans, Louisiana. [Society for Neuroscience Abstracts](#), 23:1105.
- Fleming, S.M., Boat, K.A., **Castañeda**, E. and Stachowiak, M.K. (1998) Improvement of rotational behavior but not of sensory neglect following transplantation of astrocytes transduced with tyrosine hydroxylase cDNA. Poster presented at the 28th Annual Society for Neuroscience Meetings, Los Angeles, California. [Society for Neuroscience Abstracts](#), 24:558.
- Paquette, M.A., Maher, P.A., **Castañeda**, E. and Stachowiak, M.K. (1998) Subcellular localization of FGFR1 may determine its mitogenic or differentiating action. Poster presented at the 28th Annual Society for Neuroscience Meetings, Los Angeles, California. [Society for Neuroscience Abstracts](#), 24:1786.
- Paquette, M.A., Maher, P.A., Moffett, J., **Castañeda**, E., Bloom, D.C. and Stachowiak, M.K. (1999) Regulation of proliferation, growth, and survival of neural cells by FGF-2 and FGFR1. Poster presented at the 29th Annual Society for Neuroscience Meetings, Miami Beach, Florida. [Society for Neuroscience Abstracts](#), 25:763.
- Paquette, M.A., Maher, P.A., Moffett, J., **Castañeda**, E., Bloom, D.C. and Stachowiak, M.K. (2000) Regulation of proliferation, growth, and survival of neural cells by FGF-2 and FGFR1. Poster presented at the 9th Annual International Behavioral Neuroscience Society Meeting, Denver, Colorado. [Abstracts of the International Behavioral Neuroscience Society](#), 9:44.
- Paquette, M.A., Maher, P.A., Moffett, J., **Castañeda**, E., Bloom, D.C. and Stachowiak, M.K. (2000) Regulation of cell cycle, differentiation, and survival of PC-12 cells by FGF-2 and FGFR1. Poster presented at the 30th Annual Society for Neuroscience Meetings, New Orleans, Louisiana. [Society for Neuroscience Abstracts](#), 26:1094.
- Avila, I., Manfredsson, F., Austin, S., Chavez, C., Paquette, M., **Castañeda**, E. and Bloom, D.C. (2001) Gene therapy for Parkinson's Disease: Parametric studies of HSV/ $\beta$ -galactosidase expression in the rat brain. Poster presented at the 31st Annual Society for Neuroscience Meetings, San Diego, California. [Society for Neuroscience Abstracts](#), 27:Program No. 598.10
- Reilly, M.P., Avila, I., Posadas-Sánchez, D., Chavez, C. L., Banerjee, N., **Castañeda**, E. and Killeen, P. (2001) Modeling operant behavior in the Parkinsonian rat. Poster presented at the 31st Annual Society for Neuroscience Meetings, San Diego, California. [Society for Neuroscience Abstracts](#), 27:Program No. 540.2.
- Avila, I., Tran, R.K., Austin, S., Manfredsson, F., Banerjee, N., Chavez, C., Paquette, M.A., **Castañeda**, E., and Bloom, D. C. (2002) Retrograde and Anterograde Axonal Transport in the Nigrostriatal Pathway of Herpes Simplex Virus Type-1 Mutant Defective in the Immediate Early Gene Encoding ICP4. Program No. 387.10. 2002 Abstracts Viewer/Itinerary Planner. Washington, D.C: [Society for Neuroscience Meeting](#), Orlando, Florida. CD-ROM.
- Avila, I., Reilly, M.P., Posadas-Sánchez, D., Chavez, C. L., Banerjee, N., **Castañeda**, E. and Killeen, P. (2003). Modeling operant behavior in the Parkinsonian rat. Program No. 948.10. 2003 Abstracts Viewer/Itinerary Planner. [Society for Neuroscience Meeting](#), New Orleans, Louisiana.
- Paquette, M.A., Austin, S.A. and **Castañeda**, E. (2003). Differential Sensitivity of Amphetamine-Evoked Rotational Behavior to Dopamine Synthesis Blockade Early Versus Late after Unilateral Intranigral 6-OHDA. Program No. 535.17. 2003 Abstracts Viewer/Itinerary Planner. [Society for Neuroscience Meeting](#), New Orleans, Louisiana.
- Paquette, M.A., Marsh, S. and **Castañeda**, E. (2004) Differential Sensitivity of Amphetamine-Evoked Rotation to Dopamine Synthesis Blockade After Cortical Versus Nigral Damage. Program No. 685.8. 2004 Abstracts Viewer/Itinerary Planner. [Society for Neuroscience Meeting](#), San Diego, California.

- Chandler, P.C., **Castañeda**, E., Artiga, A.I., Eldridge, A.J., Maddox, L.C., Cameron, C.R. and Boggiano, M.M. (July, 2005) A history of dieting and intermittent palatable food alters forebrain monoamine levels in ways consistent with depression, impulsivity, and binge-eating. Society for the Study of Ingestive Behavior, Pittsburgh, Pennsylvania.
- Eheart, D., Paquette, M.A., Baran, S.E., Cranston, K., Conrad, C.D. and **Castañeda**, E. (2005) Gender differences in the neurotoxic effects of MDMA: effects of L-5-HTP treatment. Program No. 111.16. 2005 Abstracts Viewer/Itinerary Planner. Society for Neuroscience Meeting, Washington DC.
- Paquette, M.A. and **Castañeda**, E. (2005) Effects of dopamine synthesis blockade on amphetamine-evoked behavior after unilateral nigral or cortical damage in the rat. Program No. 335.14. 2005 Abstracts Viewer/Itinerary Planner. Society for Neuroscience Meeting, Washington DC.
- Hutchings, J.E., Paquette, M.A. and **Castañeda**, E. (2005) Behavioral asymmetries immediately after unilateral nigral or cortical damage. Program No. 335.15. 2005 Abstracts Viewer/Itinerary Planner. Society for Neuroscience Meeting, Washington DC.
- Marsh, S.T., Paquette, M.A. and **Castañeda**, E. (2005) Behavioral changes immediately after unilateral nigral or cortical damage in the rat. Program No. 335.16. 2005 Abstracts Viewer/Itinerary Planner. Society for Neuroscience Meeting, Washington DC.
- Austin, S., Meyers, R.A. and **Castañeda**, E. (2005) Parametric studies of concomitantly evoked in vivo striatal dopamine overflow and rotational behavior by electrical stimulation. Program No. 664.14. 2005 Abstracts Viewer/Itinerary Planner. Society for Neuroscience Meeting, Washington DC.
- Davis, D.A., Chen, K., Moeller, J.R., Reiman, E.M., **Castañeda**, E., Zautra, A.J., Lanyon, R.I., Bokde, A., Hampel, H., Pietrini, P., Rapoport, S.I. and Alexander, G.E. (2006) Voxel-based network analysis of regional glucose metabolism in Alzheimer's disease. Program No. 377.19/MM52. 2006 Abstracts Viewer/Itinerary Planner. Society for Neuroscience Meeting, Atlanta, Georgia.
- Avila, I., Walters, J. and **Castañeda**, E. (2007) Firing rate and local field potential changes in a basal ganglia output nucleus during walking and rest in the hemiparkinsonian rat. Program No. 622.8/ SS25. 2007 Abstracts Viewer/Itinerary Planner. Society for Neuroscience Meeting, San Diego, California.
- Avila, I., Parr-Brownlie, L.C., Bergstrom, D.A., Castañeda, E. and Walters, J.R. (2008) Beta and low gamma frequency synchronization in basal ganglia output during rest and walk in the hemiparkinsonian rat. Movement Disorder Society Conference 12<sup>th</sup> International Congress, Chicago, IL.

## **OTHER PRESENTATIONS**

- Castañeda**, E., and Moss, D.E. (1979) Tetrahydrocannabinol and depression. Paper presented at the Annual Southwestern Minority Biomedical Support Convention, Socorro, New Mexico.
- Castañeda**, E., Salome, R. and Moss, D.E. (1980) The effects of tetrahydrocannabinol on 'free' and 'bound' pools of central acetylcholine. Paper presented at the Annual Southwestern Minority Biomedical Support Convention, Socorro, New Mexico.
- Castañeda**, E., Salome, R. and Moss, D.E. (1980) The effects of tetrahydrocannabinol on 'free' and 'bound' pools of central acetylcholine. Paper presented at the Eighth Annual National Minority Biomedical Support Symposium, Atlanta, Georgia.
- Castañeda**, E., Salome, R. and Moss, D.E. (1980) The effects of tetrahydrocannabinol on 'free' and 'bound' pools of central acetylcholine. Paper presented at the First Annual El Paso Psychological Association Convention, El Paso, Texas.
- Castañeda**, E., Wishaw, I.Q. and Robinson, T.E. (1988) Residual extracellular dopamine concentrations in an animal model of Parkinson's disease: An in vivo intracerebral microdialysis study. Poster presented at the 8th Annual Alberta Heritage Foundation for Medical Research Days Conference, Edmonton, Alberta.
- Robinson, T.E., **Castañeda**, E. and Wishaw, I.Q. (1990) Microdialysis studies of neural recovery and sparing of functions after brain damage. Presented at the Pittsburgh Conference on Analytical Chemistry and Applied Spectroscopy, New York, New York. Mar. 5-9.
- Castañeda**, E., Moss, D.E., Oddie, S.D. and Wishaw, I.Q. (1990) Delta-9-tetrahydrocannabinol does not affect mesotelencephalic levels of extracellular dopamine as measured by in vivo microdialysis in freely moving rats. Presented at Marijuana 1990: An International Conference on Marijuana, Kolymbari, Crete. July 7-13.
- Wishaw, I.Q. and **Castañeda**, E. (1991) Dialysis, tissue, and behavioural analyses of the effects of unilateral neocortical damage and bilateral medial frontal cortex damage on striatal monoamines during recovery: dissociations between behavioural and biochemical effects. Oral presentation delivered at the Workshop on

- Recovery of Function Following Brain Damage, European Brain and Behaviour Society, Goldsmiths' College, London, England. April 11-13.
- Tran, L. and **Castañeda**, E. (1992) Neural and behavioral recovery after dopamine-depleting lesions of the brain. Poster presented at the Rocky Mountain Psychological Association 1992 Convention, Boise, Idaho.
- Davis, D.A., **Castañeda**, E. and Neisewander, J.L. (1993) 6-Hydroxydopamine lesions inhibit development of reserpine-induced oral dyskinesia in rats. Paper presented at 1993 Western Psychological Association Convention, Phoenix, Arizona. April 22 - 25, p. 80.
- Friedman, S., Hodge, G., Hagen, M., Wilbourne, P., Lubow, J. and **Castañeda**, E. (1995) Methamphetamine-induced neurotoxicity impairs morris water-maze performance. Poster presented at the Rocky Mountain Psychological Association 1995 Convention, Boulder, Colorado.
- Castañeda**, E., Whishaw, I.Q., Davidson, M., Schuster, L., Daugherty, T. and Li, Y.-H. (1996) Changes in dialysis measures of striatal monoamines and amphetamine-evoked rotational behavior after electrolytic lesion of the nigrostriatal bundle. Poster presented at the Proceedings of Arizona Neuroscience 1996 Conference, Tucson, Arizona. January 19 - 20.
- O'Dell, L.E., Tran-Nguyen, L.T.L., **Castañeda**, E., Sussman, A.N. and Neisewander, J.L. (1996) Dopamine overflow in the nucleus accumbens of rats during extinction and reinstatement of cocaine self-administration behavior. Poster presented at the Proceedings of Arizona Neuroscience 1996 Conference, Tucson, Arizona. January 19 - 20.
- Castañeda**, E., Whishaw, I.Q., Davidson, M., Schuster, L., Daugherty, T. and Li, Y.H. (1996) Changes in rotational behavior and dopaminergic function assessed with microdialysis after unilateral electrolytic lesion of the nigrostriatal bundle. Poster presented at the Robert S. Flinn Foundation Biomedical Research Enrichment Initiative, Scottsdale, Arizona. May 3-4.
- Fleming, S.M., Boat, K.A., **Castañeda**, E. and Stachowiak, M. (1997) Recovery of function following transplantation of genetically altered primary fibroblasts and astrocytes into a rat model of Parkinson's disease. Poster presented at the Robert S. Flinn Foundation Biomedical Research Enrichment Initiative, Tucson, Arizona. May 9-10.
- Fleming, S.M., Boat, K.A., Moffett, J., Lieberman, A., **Castañeda**, E. and Stachowiak, M.K. (1998) Survival of transiently transfected fibroblasts and astrocytes expressing recombinant TH and  $\beta$ -GAL following transplantation into the rat striatum. Poster presented at the Arizona Chapter Society for Neuroscience Meeting, Phoenix, Arizona. January 9.
- Paquette, M.A., Maher, P.A., **Castañeda**, E., Bloom, D.C. and Stachowiak, M.K. (1998) Subcellular localization of FGFR1 may determine its mitogenic or differentiating action. Poster presented at The Flinn Foundation's Fourth Annual Biomedical Symposium, Tucson, Arizona. December 11-12.
- Castañeda**, E. (1999) Transplantation of astrocytes containing transgenic TH: behavioral effects in the hemiparkinsonian rat. Eleventh Annual Meeting: Canadian Spring Meeting on Behaviour and Brain, Fernie, British Columbia. February 26.
- Castañeda**, E. (2000) Read my lips: Herpes could help Parkinson's patients! Twelfth Annual Meeting: Canadian Spring Meeting on Behaviour and Brain, Fernie, British Columbia. February 26.
- Avila, I., Manfredsson, F., Chavez, C., Austin, S., Bahe, L., **Castañeda**, E., Stachowiak, M.K. and Bloom D.C. (2000) Gene Therapy for Parkinson's Disease: parametric studies of HSV/ $\beta$ -gal expression and behavioral assessment. Poster presented at the Twelfth Annual Minority Fellowship Program in Neuroscience Poster Session during the 30th Annual Society for Neuroscience Meetings, New Orleans, Louisiana. November 4.
- Castañeda**, E. (2001) Dopamine Plasticity in Recovery of Function. Talk delivered at the Grand Opening Symposium for the Canadian Centre for Behavioral Neuroscience. University of Lethbridge, Lethbridge, Alberta, Canada. July 14.
- Castañeda**, E. (2001) Investigations of Extracellular Dopamine Levels Following Brain Damage. Talk delivered at the Society for Advancement of Chicanos and Native Americans in Science (SACNAS) National Conference. Phoenix, AZ. September 28.
- Castañeda**, E. (2002) Chair and Presenter, Panel on Interdisciplinary Perspectives on Hispanic Drug Abuse Research: A Case Study of Craving and Relapse. National Hispanic Science Network on Drug Abuse Conference. Panel Members: Antonio Cepeda-Benito (Texas A&M Univ.), José Szapocznik (Univ. Miami), Frank Vocci (NIDA), Nora Volkow (Brookhaven National Laboratory). Universal City, CA. September 26-28.
- Castañeda**, E. (2004) Dopamine Function from Drug Addiction to Brain Damage. Talk delivered at the Society for Advancement of Chicanos and Native Americans in Science (SACNAS) National Conference. Austin, TX. October 22.
- Boggiano, M. M., Chandler P.C. and **Castañeda**, E. (2005) Animal models of eating disorders. NIMH, Division of

Pediatric Translational Research and Treatment Development Conference on "The Early Recognition of Eating Disorders in Children & Adolescents." NIMH, Bethesda, Maryland. Jan. 28.

- Castañeda**, E. (2005) Presynaptic Mechanisms of Cross-sensitization in Stimulant Drug Addiction. Research Forum - Arizona Institute for Mental Health Research. Phoenix, AZ. September 7.
- Arroyo, J., **Castañeda**, E., Frascella, J., Mancilla, Y. (Chair), Page, B., Sesma, M., Turner, R.J., and Zea, M.C. (2005) Grant Writing and Career Development Workshop: "Science in a Fishbowl." Fifth Annual National Hispanic Science Network on Drug Abuse Conference, Coral Gables, FL, September 14. (Panelists in Alphabetical Order)
- Castañeda**, E., Etgen, A. (Chair), Ford, B., Martinez, J., Peña, S. and Townsel, J. (2005) American Psychological Association Diversity Program In Neuroscience Workshop: Developing Grant Skills Through Mock Grant Reviews. Society for Neuroscience Conference, Washington DC. November 12. (Panelist Mock Reviewers in Alphabetical Order)
- Eheart, D., Paquette, M.A., Cranston, K., Baran, S., Conrad, C. and **Castañeda**, E. (2006) Sex differences in the neurotoxic effects of MDMA: effects of L-5-HTP treatment. Sixth Annual National Hispanic Science Network on Drug Abuse Conference, Scottsdale, AZ, September 14.
- Trujillo, K., **Castañeda**, E., Martinez, J.L., Jr., and Molina, P.E. (2007) Mentoring basic scientists. Seventh Annual National Hispanic Science Network on Drug Abuse Conference, Miami Beach, FL, September 27.
- Trujillo, K. and **Castañeda**, E. (2007) Basic science breakout: Datablitz. Seventh Annual National Hispanic Science Network on Drug Abuse Conference, Miami Beach, FL, September 27.
- Natividad, L.A., Torres, O.V., Tejada, H.A., **Castañeda**, E. and O'Dell, L.E. (2008) The neurochemical effects of nicotine withdrawal are different in adolescent and adult rats. Eighth Annual National Hispanic Science Network on Drug Abuse Conference, Washington DC, October 2.
- Tejada, H.A., Torres, O.V., Natividad, L.A., Orfila, J., **Castañeda**, E. and O'Dell, L.E. (2008) Stimulation of kappa opioid receptors elicits nicotine withdrawal in adult but not adolescent rats. Eighth Annual National Hispanic Science Network on Drug Abuse Conference, Washington DC, October 1.

### **INVITED LECTURES OUTSIDE ASU**

- Compensatory changes in striatal dopaminergic neurotransmission assessed by microdialysis following 6-OHDA-induced injury. Department of Pharmacology and Therapeutics, Louisiana State University Medical Center - Shreveport, Louisiana. January 8, 1990.
- Microdialysis studies of neural recovery and sparing of behavioral function after brain damage. Department of Psychology, Northeastern University, Boston, Massachusetts. February 1, 1990.
- Compensatory changes in striatal dopaminergic neurotransmission assessed by microdialysis following 6-OHDA-induced injury. Department of Psychology, California State University, Sacramento, California. March 7, 1990.
- Microdialysis studies of neural recovery and sparing of behavioral function after brain damage. Department of Psychology, University of Colorado, Boulder, Colorado. March 21, 1990.
- Changes in extracellular striatal dopamine following brain damage: dysfunction or compensation? 1993 Western Psychological Association Convention, Phoenix, Arizona. April 22 - 25, 1993, p. 33.
- In vivo* extracellular dopamine changes immediately after brain damage: compensation or dysfunction? Department of Psychology, California State University, San Bernardino, California. April 29, 1993.
- In vivo* extracellular dopamine changes immediately after brain damage: compensation or dysfunction? Department of Psychology, University of Texas at El Paso, El Paso, Texas. October, 1993.
- Behavioral and biochemical studies on recovery of function in dopamine-depleted rats. Minority Biomedical Support Program, University of New Mexico School of Medicine, Albuquerque, New Mexico. December 22, 1994.
- Behavioral and biochemical studies on recovery of function after dopamine depletions in the rat brain. Minority Institutions Research Development Program, Lehman College, Bronx, New York. April 28, 1995.
- Recovery of function: behavioral and biochemical correlates. Neurobiology Section, Barrow Neurological Institute of St. Joseph's Hospital, Phoenix, Arizona. May 23, 1996.
- If marijuana and amphetamine turn on the same brain reinforcement pathway, why are the highs so different? Department of Psychology, University of Texas at El Paso, El Paso, Texas. October 24, 1996.
- Behavioral changes after brain damage: Indexes of compensation or dysfunction? Department of Anatomy and Cell Biology, State University of New York at Buffalo, Buffalo, New York. March 17, 2000.
- Neurochemistry of plasticity after dopaminergic denervation. Minority Access to Research Careers (MARC) Program.



- University of Arizona, Tucson, AZ. October 8, 2001.
- Neurochemistry of dopamine plasticity immediately after brain damage and its role in early "paradoxical" amphetamine-evoked rotational behavior. MBRS-SCORE and MARC-U-STAR\*\* Programs, California State University, San Marcos. March 21, 2002.
- Gene therapy for Parkinson's disease: a neuropsychological approach augments predictive validity. Neuroscience Institute, Morehouse School of Medicine, Atlanta, Georgia, April 24, 2002.
- Gene therapy for Parkinson's disease: a neuropsychological approach augments predictive validity. Specialized Neuroscience Research Program, Department of Biology, University of Texas at San Antonio, April 16, 2002.
- Functional motor system shutdown: Is it plastic or is it broken? Department of Psychology, University of Alabama, Birmingham, December 3, 2003.
- Plasticity of Dysfunction: Transient Changes in Behavior and Dopaminergic Function During the Immediate Sequelae Following Brain Damage. Specialized Neuroscience Research Program, Department of Biology, University of Texas at San Antonio, February 26, 2004.
- Is it plastic or is it broken? Transient Changes in Behavior and Dopaminergic Function During the Immediate Sequelae Following Brain Damage. NIH/MBRS/Minority Access to Research Careers Program, Northern Arizona University, April 19, 2004.
- Assessment of Behavioral Recovery After Experimental Gene Therapy in a Rat Model of Parkinson's Disease. Career Opportunities in Research (COR) Program, San Diego State University, March 2, 2005.
- Rotational Behavior as an Assessment Tool for Compensation and Dysfunction: Inferences about Underlying Neurophysiology. Texas Consortium in Behavioral Neuroscience. University of Texas at Austin, March 2, 2007.
- Rotational Behavior as an Index for Presynaptic Function During Degeneration of Mesotelencephalic Dopamine Pathways. Queens College, March 14, 2007.
- Rotational Behavior as an Index for Presynaptic Function in Mesotelencephalic Dopamine Pathways. Department of Psychology, University of Texas at El Paso, March 22, 2007.

#### **INVITED LECTURES/PRESENTATIONS WITHIN ASU**

- Long-term biochemical changes in striatal dopamine release following repeated amphetamine administration: implications for the neurochemical basis of amphetamine-induced psychosis. Neuralunch (Interdisciplinary Committee on Adaptive Neural Systems); Fall, 1990.
- The search for biological determinants of behavior. ASU West 21st Century Conference; April 7 - 9, 1991.
- Introduction to brain neuroanatomy/101. Presentation given at ICANS Seminar; September 17, 1992.
- Microdialysis measures of striatal dopamine after brain damage: compensation or dysfunction? Exercise Science Seminar; February 25, 1993.
- Changes in dopamine release from intact regions following brain damage. Cognitive Systems/Behavioral Neuroscience Colloquium Series; September 13, 1993.
- Behavioral and biochemical studies on recovery of function in dopamine-depleted rats. Cognitive Systems/Behavioral Neuroscience Colloquium Series; December 12, 1994.
- Studies in the timecourse of changes in dopamine activity and behavior following brain damage. Molecular and Cellular Biology Program Colloquium; September 11, 1995
- Timecourse of changes in behavior and neurochemical activity after electrolytic lesion of a neural pathway involved in Parkinson's disease. Poster presented at the Diez Años: A Decade Celebration of the Hispanic Research Center at Arizona State University; March 2, 1996.
- Conditioned place preference and locomotion, but no conditioned dopamine release after exposure to a cocaine-paired environment. Poster presented at the Diez Años: A Decade Celebration of the Hispanic Research Center at Arizona State University; March 2, 1996.
- Presynaptic dopamine function across recovery of function from brain damage. Flinn Foundation Motor Control Colloquium of the Department of Exercise Science and Physical Education; March 4, 1996.
- Biological bases of craving for cocaine: A role for environmental cues. Flinn Foundation Motor Control Colloquium of the Department of Exercise Science and Physical Education; April 8, 1997.
- Behavioral and biochemical studies on the physiological bases of craving for drugs of addiction. Minority Access to Research Careers (MARC) program students; April 22, 1997.
- Bifurcations of Intent: Brain and Bulimia. Cognitive Systems/Behavioral Neuroscience Colloquium Series; November 3, 1997.



Florida/Gainesville. Awarded by ASU Office of the Vice Provost for Research. Total Award \$16,821 + animal costs + 1 course buyout for 07/01/99 - 06/30/00.

Research Incentive Award from ASU Office of Vice Provost for Research. \$16,000. Intramural.

The goal of this research is to collect preliminary data that has been used to submit the AZ IMHR proposal listed below and the preparation of an R21 to NIH/NIDA for a February 1, 2006 submission.

---

## **TEACHING EXPERIENCE**

Advanced Laboratory in Physiological Psychology, University of Michigan

Introductory Statistics, University of Lethbridge

Physiological Psychology (PSY325)

Neuroanatomy (PSY426/PSY591)

Biological Bases of Behavior (PSY425/PSY591)

Seminar: Cerebral Cortex of the Rat Brain (PSY591)

Seminar: Advanced Topics in Cognitive Science (PSY598)

Seminar: Laboratory Principles in Behavioral Neuroscience (PSY498/PSY591)

Seminar: Dopamine: Neurochemistry & Behavior (PSY498/PSY591)

Seminar: Gene Therapy in the Nervous System (MIC598) - teleconference with SUNY/Buffalo

Seminar: Neurodegeneration (PSY498/PSY591)

Behavioral Studies of Marine Organisms Module (BIO494 Marine Science)

Bridge Course: Minority Health Issues and Science Research (PSY194)

---

## **HONORS, AWARDS AND SCHOLARSHIPS**

1974	Our Lady of the Light Catholic Church Scholarship
1977	Psi Chi, National Honor Society in Psychology (University of Texas/EI Paso Chapter); Vice-President, 2 terms (1978-79, 1979-80)
1978-80	Minority Biological Support Program - Graduate Student Research Assistant
1979	Jaycee's Outstanding Young Men of America
1980-1985	University of Michigan Rackham Minority Graduate Fellowship
1982	Society for Neuroscience Annual Meeting Minority Travel Fellowship Recipient
1987	Alberta Heritage Foundation for Medical Research Post-doctoral Fellowship
1992	Arizona State University Student Affairs Recognition for Significant Contributions to the Quality of Life for Students
1993	Arizona State University Student Affairs Recognition for Significant Contributions to the Quality of Life for Students
1994	Nominated for the Distinguished Teaching Award in the College of Liberal Arts and Sciences by Ms. Joyce C. Baldwin, science teacher at Estrella Mountain H. S.
1994	Nominated for the Chicano Faculty and Staff Association Dr. Manuel Servin Faculty Award
1995	Hispanic Research Center Distinguished Contributions Award for Service to Internal Advisory Committee
1995	Psi Chi National Honor Society ASU Chapter Outstanding Instructor Award
1996	Community Documentation Program/Hispanic Research Center Distinguished Contributions Award for Service to Advisory Committee
1997	Recognition Award for Meritorious Service by Arizona Association of Chicanos for Higher Education (AACHE)
1998	ASU Devils' Advocates Certificate of Appreciation
1999	Wakonse Teaching Fellowship, Camp Tontozona Retreat, June 3-6
2000	Distinguished Faculty Award, Arizona Association of Chicanos for Higher Education (AACHE), AACHE 2000 Conference, Estrella Mountain Community College, Tolleson, Arizona, October 13
2001	Mentorship Appreciation Award, Preparing Future Faculty Program, May 3
2003	Nominated for the Parents Association ASU Professor of the Year Award

2006 Honors Disciplinary Faculty, Barrett Honors College, Arizona State University  
 2007 Nominated for ASU Professor of the Year  
 2007 Nominated for ASU Teacher of the Year  
 2007 Nominated for ASU Centennial Professorship  
 2007 National Award of Excellence in Mentorship, Seventh Annual National Hispanic Science Network on Drug Abuse Conference, Miami Beach, FL, September 27.

---

### **PROFESSIONAL AFFILIATIONS**

1979 Sigma Xi, Associate Member  
 1986 American Association for the Advancement of Science  
 1986 Society for Neuroscience  
 1989 American Psychological Society  
 1992 Western Psychological Association  
 1995 Arizona Chapter, Society for Neuroscience  
 1998 Society for the Advancement of Chicanos and Native Americans in Science (SACNAS)  
 2001 National Hispanic Science Network on Drug Abuse  
 2005 Arizona Arts, Sciences and Technology Academy, Founding Fellow  
 2006 American Psychological Association

---

### **NATIONAL SERVICE**

1991-92 NIMH/ADAMHA Grants, Ad Hoc Reviewer  
 1990-93, 95 Mentor, Society for Neuroscience Minority Travel Fellowship program - host national travel fellowship recipients to provide guidance  
 1992-95 Member, Minority Education, Training and Professional Advancement Committee (METPAC), Society for Neuroscience  
 1993-95 Selection Committee, METPAC Society for Neuroscience Minority Travel Fellowship  
 1995/96/98/99 NIH/NIGMS MBRS Review Panel. Ad Hoc Reviewer.  
 1996 NIDA Basic Behavioral Sciences Research Subcommittee, Ad Hoc Reviewer. July 9-11  
 1997 NSF Division of Integrative Biology and Neurosciences, Ad Hoc Reviewer. March  
 1997 Consultant, Western Alliance to Expand Student Opportunities Planning Meeting for Social and Behavioral Sciences and the Governing Board/Management Advisory Committee meeting, Las Vegas, NV. April 4-5  
 1998 Western Alliance to Expand Student Opportunities (WAESO) Grant Review Panel, May  
 2000-04 NIH/NIGMS MBRS Review Subcommittee Member  
 2002 Planning Committee, National Hispanic Science Network on Drug Abuse Annual Conference  
 2002-05 Steering Committee, Society for Neuroscience Minority Neuroscience Fellowship Program, Program to Increase Ethnic Diversity in Neuroscience  
 2004 - Selection Committee, Outstanding Alumnus, SfN Minority Neuroscience Fellowship Program  
 2005 Abstract Selection Committee, Society for the Advancement of Chicanos and Native Americans in Science, 2005 National Conference, "Science for America's Future." Sept. 29-Oct. 2  
 2005 Faculty Tenure and Promotion Assessor, University of Texas at Austin, August  
 2005 Preconference Planning Committee International Scientific Research Opportunities, Fifth Annual National Hispanic Science Network on Drug Abuse National Conference, Sept. 14, Coral Gables, FL  
 2002-07 Steering Committee, American Psychological Association Diversity in Neuroscience Program  
 2004 - Selection Committee, Outstanding Alumnus, APA Diversity in Neuroscience Fellowship Program  
 2004-07 Member, International Research Collaboration Subcommittee, National Hispanic Science Network on Drug Abuse  
 2006 Co-chair, New Investigators in Hispanic Drug Abuse Research panel, Sixth Annual National Hispanic Science Network on Drug Abuse National Conference, Sept. 12-16, Scottsdale, AZ

2006	Chair, Poster Session Subcommittee, Sixth Annual National Hispanic Science Network on Drug Abuse National Conference, Sept. 12-16, Scottsdale, AZ
2006	Co-organizer, with Dr. Felipe Castro, Community Visit to Drug Rehabilitation Center and Roundtable Discussion, "Implementing Evidence-based Treatments Within Hispanic Communities"
2007	Member, External Advisory Committee, Texas Consortium in Behavioral Neuroscience. Francisco Gonzalez-Lima, Ph.D., Director, University of Texas at Austin
2007	Member, External Advisory Committee, Minority Access to Research Careers (MARC) Training Program, Queens College. Dr. Zahra Zakeri, Program Director
2007	NIH/NIDDKD Special Emphasis Panel, Ad Hoc Reviewer. June 19
2007	Member, Scientific Advisory Board, Support of Mentors and their Students in the Neurosciences (SOMAS-URM) Program, Davidson College, Davidson, NC. Dr. Julio J. Ramirez, Program Director

### **UNIVERSITY AND COLLEGE SERVICE**

1984	Minority Recruiter, Graduate Record Examinations Board and the Council of Graduate Schools sponsored ETS Recruitment Forum, University of Michigan
1990-92	Committee to Nominate Cesar Chavez for Honorary Degree, Chicano Faculty and Staff Association, Arizona State University (ASU)
1991	Mentor, One-to-One Assistance Program for Entering Minority Students, ASU
1995-96	Faculty Task Force on Evaluation and Recognition of Service, ASU
1995-98	Institutional Animal Care and Use Committee, ASU
1997	University Veterinarian Search Committee, Spring semester, ASU
1997	Task Force on the Role and Responsibilities of the University Veterinarian, Summer semester, ASU
1997-99	Graduate College Teaching Assistant Training Workshop - Ethical Behavior in T.A.s August 19, 1997; August 18, 1998; August 17, 1999
1997-98	University Veterinarian Search Committee, ASU
1999-2003	Chair, Institutional Animal Care and Use Committee, ASU
2000-2003	Chair, Research Safety Oversight Committee, ASU
2000	Presenter on "Special Topics in Research Administration: IACUC Administration" to Sponsored Projects Certificate Program, ASU Office of Research & Creative Activities, April 19
2002	Animal Care Program Director Search Committee
2000-2003	OVPR Animal Users' Advisory Committee
2004-05	Vice-President, Sigma Xi Society, ASU Chapter
2006	Participant, Symposia on Diversity in the Sciences: Mentoring and Retaining Underrepresented Minorities, University of Washington, October 27-28, 2006
2007	Poster Judge, Seventh Annual Arizona More Graduate Education at Mountain States Alliance (MGE@MSA) Student Research Conference, April 23.

### **DEPARTMENT AND AREA SERVICE**

1980-1981	Psychobiology Colloquium Committee, University of Michigan
1982-1983	Graduate Student Representative to Psychobiology Faculty, University of Michigan
1982-1987	Consultant for Minority Recruitment and Admissions to the University of Michigan Psychology Department
1984-87	Director, Chicano Student Psychological Association Minority Recruitment Project Committee, University of Michigan
1989	Co-coordinator, Psychology Summer Seminar Series, University of Lethbridge, Alberta, Canada
1991-92	Personnel Committee, Hispanic Research Center
1991-93	Affirmative Action Committee, Psychology Dep't.
1991-93	Chair, Animal Care Committee, Psychology Dep't.
1992-93	Internal Advisory Committee, Hispanic Research Center

1993	Organizer, Reception for Ethnic Minority Students in Psychology. Coordinated with Dr. Martha Bernal. February 4.
1993-94	Personnel Committee, Hispanic Research Center
1994-95	Internal Advisory Committee, Hispanic Research Center
1994-96	Undergraduate Studies Committee, Psychology Dep't.
1994-97	Advisory Committee, Community Documentation Program, Hispanic Research Center
1995-96	Faculty Evaluations Procedures Task Force, Psychology Dep't.
1995-96	Personnel Committee, Hispanic Research Center
1996	Student Scholarship Selection Committee, Inter-University Program in Latino Research (IUPLR) Graduate Training Seminar in Quantitative Methodology, Hispanic Research Center.
1996-97	Chair, Committee on Research and Creative Activities, Hispanic Research Center
1997	Behavioral Neuroscience Faculty Search Committee, Psychology Dep't.
98-00,04-06	Faculty Evaluation Committee, Psychology Dep't.
2000-2004	Chair, Selection Committee, Ernest Lindholm Outstanding Undergraduate Student in Behavioral Neuroscience Award.
2003-04	Behavioral Neuroscience Faculty Search Committee, Psychology Dep't.
2004	Departmental Development Committee
2004-05	Behavioral Neuroscience Faculty Search Committee, Psychology Dep't.
2004-06	Lecturer Search Committee, Psychology Dep't.
2004-07	Undergraduate Studies Committee, Psychology Dep't.
2005-07	Environmental Health & Safety Compliance Officer, Psychology Dep't.

### **COMMUNITY SERVICE**

1994	Spanish Translator for News Release to Phoenix Metropolitan News Media Announcing Initiative for a National HIV Policy by The National Council on HIV Disease, Kristine Gebbie, R.N., M.N. (former White House-appointed National Aids Policy Coordinator) and Dr. Austin Jones (ASU). October 18.
1994	Keynote speaker to graduating class, Guadalupe Academia Summer Camp. July.
1995	Invited speaker to American Parkinson's Disease Association Support Group, Parkinson's Action Network, Mary Helen Davila, regional coordinator, Barrow Neurological Institute. April 4
1995	Stimulant drugs of abuse: psychopharmacology of addiction. Lecture given at the Crystal/Methamphetamine Seminar, Colorado River Indian Tribes Behavioral Health Services, Parker, AZ. June 15
1995	Spanish Translator for News Release to Phoenix Metropolitan News Media Announcing World AIDS Day, for Lisa Honebrink of Arizona AIDS Foundation, December 1
1996	Guest speaker on brain, behavior and science to second grade class at Josefa L. Sambrano Elementary School, San Elizario, TX. December 18
96-98,03-07	Executive Committee, Chicano Faculty and Staff Association - ASU Representative at Arizona Association of Chicanos for Higher Education (AACHE) State Board meetings
1997-99	Chair, Organizing Committee for AACHE-sponsored Student Leadership Conference
1997	Judge, Broadmoor Elementary School PTSA Science Fair, Tempe, AZ. February 26
1997	Biological bases of craving for stimulant drugs: A role for environmental cues. Lecture given at Valle del Sol, Inc., Phoenix, AZ. April 29
1997-98	Liaison between Dimensions Academy, charter school for deaf targeting Hispanics, and Community Art and Research Outreach Program (CARO) of the Hispanic Research Center
1998	Judge, Broadmoor Elementary School PTSA Science Fair, Tempe, AZ. March 4
1998-99	Public Relations Committee, AACHE state board
98-99, 06-07	Membership Coordinator, AACHE state board
2003	Judge, Arizona Junior Science and Humanities Symposium, Rio Salado Community College, Tempe, AZ. March 31
2004	Panelist, High School Honors Project Defense by Kiran Kumar, Mountain Point High School. May 14

2004	Chair, Organizing Committee, 2004 AACHE (Arizona Association of Chicanos for Higher Education) Conference Committee, ASU Memorial Union. November 12
2004-2005	Ask A Biologist, Respondent for questions submitted by community through ASU Search Engine
2005	Judge, 7 <sup>th</sup> Annual Hamilton International Science and Engineering Fair, Hamilton High School, Chandler, AZ, February 18
2005	Volunteer Grand Awards Judge, Intel International Science and Engineering Fair, Phoenix, AZ, May 10-11
2006	Judge, 2006 Annual Biomedical Research Conference for Minority Students (ABRCMS), Anaheim, CA, November 9-11

---

## **TEACHING SERVICE**

1991	Coordinator, Summer Visitation Program for Guadalupe Township Adolescents, ASU. August 14.
1991-95	Mentor, NIH-funded Minority High School Student/Teacher Summer Research Apprentice Program, ASU.
92-99, 04-05	ASU Faculty Ambassador's Program Lecturer. High school visitations.
1993	Hosted High School Native American Student Visitation from Estrella Mountain High School. October 5.
1993	Lecturer for "Academia," Teen Prevention Program, sponsored by Centro de Amistad Incorporado, Guadalupe, Arizona. "Careers in Psychology." June 9.
1994	Lecturer for Guadalupe Academia Summer Camp, sponsored by Centro de Amistad Incorporado, Guadalupe, Arizona. "Careers in Psychology." June 27-30.
1994-99	Member, ASU Motor Control Group, Flinn Foundation, Director: Dr. G. Stelmach.
1996-98	Student Selection Committee, Hughes Program: Biology Research Experience for Undergraduates.
1997-98	Governing Board/Management Advisory Committee, Western Alliance to Expand Student Opportunities (WAESO).
1996-2000	Lecturer for American Indian Students United for Nursing (ASUN) Summer Institute for Native American children, ASU College of Nursing. June 10-13, 1996; June 9-12, 1997; June 8-11, 1998; June 6-11, 1999; June 7-12, 2000.
1998	What is the culture shock in science for Chicana/os? Lecture delivered at the M.E.Ch.A. Chicana/Chicano Student Leadership Conference: Dandole Fuerza a Nuestra Comunidad by Inspiring The Future Leaders of Aztlan, Phoenix College. February 27, 1998.
1998	Traveling Faculty, American Psychological Association Summer Science Institute for undergraduate psychology students. Johns Hopkins University, Baltimore, MD, June 16.
1998	Careers in Science. Lecture delivered at the 4th Statewide Chicana/Chicano Student Leadership Conference, Phoenix College M.E.Ch.A., October 30.
1999	MEChistAs in Science and Math...donde estan? Co-presented with Cleopatria Martinez, Ph.D. (Phoenix College) at M.E.Ch.A. National Conference, March 20.
1999	Alumnus Speaker, University of Michigan Department of Psychology Second Annual Graduate Career Fair, September 25.
1999	University Honors College Thesis Committee, 3rd Reader for Meghan Elaine Herron, The effects of acute stress duration on context discrimination, Chair: Cheryl Conrad, Ph.D., May.
2000	Guest Speaker, Twelfth Annual Summer Program in Neuroscience, Ethics and Survival (SPINES) at the Marine Biological Laboratory, Woods Hole, Massachusetts. June 17.
2000	Graduate College Representative, Anthropology Dissertation Defense, Susan M. Howell, September 28.
2000	University Honors College Thesis Committee, 3rd Reader for Angelique Thomas, Stress-induced atrophy of the CA3 hippocampal dendrites: causal attributions, Chair: Cheryl Conrad, Ph.D., December 1.
2000/01	Behavioral Neuroscience Module: MCB555, Advanced Molecular & Cellular Biology & MCB598,

	Special Topics: Neuroscience
2002	Graduate College Representative, Department of Creative Writing Dissertation Defense, Sean M. Nevin, April 29.
2001-2007	Course Faculty, Summer Program in Neuroscience, Ethics and Survival (SPINES) at the Marine Biological Laboratory, Woods Hole, Massachusetts.
1997-2007	Steering Committee, Minority Access to Research Careers (MARC) program.
1998-2007	Director, PreMinority Access to Research Careers (PreMARC) program.
2004-07	Selection Committee, Marine Biological Laboratories, Summer Program In Neuroscience Ethics & Survival (SPINES) Course, Woods Hole, MA.
2004-05	Maroon & Gold Scholarship Program Mentor to Maria Moreno
2005-06	Maroon & Gold Scholarship Program Mentor to Fernando Aponte
2007	Neuroscience and Drug Issues. Presentation at the National Hispanic Science Network Summer Research Training Institute on Hispanic Drug Abuse, University of Houston, June 5.
2007	Presenter (Mock Fellowship Review and Responsible Conduct of Research), American Psychological Association/Diversity Program in Neuroscience Professional Development Workshop, Society for Neuroscience Annual Meeting, San Diego, CA, November 3.

---

### **EDITORIAL SERVICES**

1990-91	Brain Research, Reviewer
1991-92	Communication Monographs, Reviewer
96,97,99,2000,03,07	Behavioural Brain Research, Ad Hoc Reviewer
2001,02	Journal of Neuroscience, Ad Hoc Reviewer
2004	Experimental Neurology, Ad Hoc Reviewer
2005	Journal of Neurophysiology, Ad Hoc Reviewer
2006, 07	Pharmacology, Biochemistry & Behavior, Ad Hoc Reviewer
2006	European Journal of Pharmacology, Ad Hoc Reviewer
2007	Frontiers in Bioscience, Ad Hoc Reviewer
2007	American Psychologist, Ad Hoc Reviewer
2007	Neuroscience Research, Ad Hoc Reviewer

---

### **CONSULTANT AND TECHNICAL TRAINING SERVICES**

1998	Reviewer, Biological Psychology and Research Methods Module for Integrator DE; Brooks/Cole Publishing Co.
2000	Seminar to ESA Inc. Sales Technicians: Use of HPLC in Behavioral Neuroscience Research
2000	Book Chapters Reviewer, Biological Psychology by Tim Parker; Harcourt College Publishers
2004	Book Reviewer, Introduction to Brain and Behavior by Bryan Kolb & Ian Q. Whishaw; Bedford, Freeman, and Worth Publishers
2006	NIH Grant Pre-submission Review for application by Dr. Keith A. Trujillo, California State University San Marcos

---

### **STUDENT AND TEACHING FUNDING**

#### **Funded Extramural Sources:**

Patricia Roberts Harris Fellowship Program. Co-written with Dr. Manuel Barrera. Awarded to Helen Tafoya-Barrera, Clinical graduate student. Submitted 1/28/91.

Theoretical Principles in Behavioral Neuroscience - Peer Study Group Project. Awarded by Western Alliance to Expand Student Opportunities (WAESO), Account # S98BU001. Funded for \$2,640 for Spring semester, 1998. Declined.

Experimental Principles in Behavioral Neuroscience - Faculty-Directed Undergraduate Research Project. Awarded by Western Alliance to Expand Student Opportunities (WAESO), Account # S98BR002. Funded for \$2,600 for Spring semester, 1998.



