

LUIS MIGUEL CARCOBA MD, Ph.D.
April 2014

EDUCATION

- 1976-1978 Institute Manuel Jose Othon (High School) San Luis Potosi, Mexico.
- 1978-1984 School of Medicine, Universidad Autonoma de San Luis Potosi, Mexico.
- 2001- 2005 University of Texas at El Paso, Department of Biological Sciences. El Paso TX.
- 2005-2008 Postdoctoral fellow of the Texas Consortium of Behavioral Neuroscience. Texas A&M University, College Station, TX.

DEGREES

- July 1984 Medical Doctor, University of San Luis Potosi, Mexico.
- May 2005 Ph.D. Biological Sciences, University of Texas at El Paso.

HONORS

- April, 2014-2016 NIDA/NIH Diversity Supplemental Award.
- March 14, 2014 Travel Award to attend the 2014 *Behavior, Biology and Chemistry* Meeting (presenter). San Antonio, TX.
- Oct 29, 2008 Speaker in the Symposium “Capacitación Clínica-Translacional para el Manejo Psicológico del Dolor Crónico: Un problema de Salud Nacional (2008-2010) Universidad Autonoma de Mexico.
- Sept. 26, 2007 Abstract selected for oral presentation at the Poster Session/New Investigators Panel, during the 2007 International Scientific Conference of the National Hispanic Scientific Network on Drug Abuse, Miami, FL.
- Aug. 27, 2007 Travel Award to attend the 2007 International Scientific Conference of the National Hispanic Scientific Network on Drug Abuse as a New Investigator Panel presenter. Miami, FL.

Dec.11, 2004	Ninth RCMI International Symposium on Health Disparities, First Place in Poster Presentation (Neuroscience Category) Baltimore, MD.
Nov. 20, 2004	Travel Award to attend the Ninth RCMI International Symposium on Health Disparities. Baltimore, MD.
May 5-7, 2003	Organizer of the 1 st International Symposium of MSF <i>In Utero</i> Exposure, El Paso, TX.
Aug. 22-25, 2001	Organizer of the 2 nd International Congress of Prevention and Attention to Addictions Ciudad Juarez, Mexico.
April 13-17, 1997	Guest Speaker, VI Latin-American Conference of Therapeutic Communities, Mexico, DF.

SOCIETY MEMBERSHIPS:

2009-Present	Sleep Research Society
2006-Present	National Hispanic Science Network on Drug Abuse
2004 – Present	Society for Neuroscience
2003- 2005	Sociedad Mexicana Para la Investigación y Medicina del Sueño
1997- 2005	Colegio Medico de Ciudad Juárez Chihuahua, México
1996-2001	Vertebracion (Municipal Association for the Prevention of Addictions) Cd.Juarez, Mexico

WORK EXPERIENCE:

October 2012-Present	Research Associated, Psychobiology Lab, Department of Psychology, UTEP
2011- Present	University of Phoenix, Faculty Member.
2009-Janauary 2012	Research Coordinator, El Paso Sleep Center, El Paso, TX.
Aug 2009-Sept 2011	Research Assistant Professor, Dept. of Psychiatry, Texas Tech University Health Sciences Center , El Paso, TX.
Aug 2008-Jul 2009	Texas A&M University, Research Associate, Environmental Psychophysiology Laboratory, College of Architecture
January-December 2008	Lecturer, Department of Psychology, Texas A&M University

Jun 2005-May 2008	Postdoctoral Fellow with the Texas Consortium of Behavioral Neuroscience at Texas A&M University
2001- 2005	Assistant Instructor, University of Texas at El Paso.
1995-2001	Medical Director Centro Católico para el Tratamiento de Adicciones. Ciudad Juarez, Chih. Mexico.
1996-2001	Lecturer, Colegio Latinoamericano, Ciudad Juarez, Chih. Mexico.
1998- 2001	Lecturer, Nursing School of Centro Medico de Especialidades, Ciudad Juarez, Chih., Mexico.
1997-1998	Lecturer, Centro Teresiano de Estudios Superiores Ciudad Juarez, Chih. Mexico.
1989-1996	Associate Physician, Centro de Rehabilitacion y Asistencia para Enfermos Mentales Ciudad Juarez, Chih., Mexico.

COURSES TAUGHT:

Drugs of Abuse and Behavior (PSYC 3346)
 UTEP, Dept of Psych. Spring 2012.

Statistical Methods (PSYC 1303)
 UTEP, Dept of Psych. Spring 2012 and 2014.

Human Nutrition (SCI 220)
 University of Phoenix, Campus Santa Teresa, NM
 Nov. 2011-Present

Elements of Health and Wellness (SCI163)
 University of Phoenix, Campus Santa Teresa, NM
 Nov. 2011-Present

Evidence Based Medicine
 Texas Tech University Health Sciences Center, Spring
 2010 and 2011.

Advanced Research Design
 Texas Tech University Health Sciences Center, Spring
 2010 and 2011.

Introduction to Biostatistical Methodology
 Texas Tech University Health Sciences Center, Fall 2009
 and 2010.

Psychophysiology
 Texas A&M University, Spring-Fall 2008.

Anatomy and Physiology I/II (Laboratory)
UTEP, Dept. of Biology, Fall, Summer and Spring 2001 to 2005.

Pharmacology
Nursing School of Centro Medico de Especialidades,
Ciudad Juarez, Chih., Mexico. 1998-2001

Health Sciences and Introduction to Biology
Colegio Latinoamericano, Ciudad Juarez, Chih. Mexico.
1996-2001

Pathobiology
Centro Teresiano de Estudios Superiores Ciudad
Juarez, Chih. Mexico. 1997-1998

CONSULTANTSHIPS

- 2011 'Ad hoc' Reviewer, International Journal of Developmental Neuroscience
- 2004 Implementation of Accreditation Manual for Sonno Sleep Center El Paso, TX.
- 1996-2000 Assessor, Consejo Municipal contra las Adicciones Ciudad Juarez, Chih. Mexico.

PUBLICATIONS:

Research Papers:

LM Carcoba, JE Orfila, LA Natividad, OV Torres, JA Pipkin, PL Ferree, E Castañeda, DE. Moss and LE O'Dell (2014) Cholinergic transmission during nicotine withdrawal is influenced by age and pre-exposure to nicotine: Implications for teenage smoking. *In Press*, to be published in *Developmental Neurosciences*.

Torres OV, Gentil LG, Natividad LA, **Carcoba LM** and O'Dell LE. (2013) Behavioral, Biochemical, and Molecular Indices of Stress are Enhanced in Female Versus Male Rats Experiencing Nicotine Withdrawal. *Front. Psychiatry*, 4:38 doi: 10.3389/fpsyt.2013.00038

Briones D, Heller PL, Escamilla MA, **Carcoba LM**, Weisman HW, Ledger EM, (2011) Chronic Conditions and Depression in Elderly Mexican American and Non-Hispanic White Residents of a United States-Mexico Border County. *Depression Research and Treatment*, Volume 2011, Article ID 908536, pp. 1-10 doi:10.1155/2011/908536

- Carcoba LM**, Contreras AE, Cepeda-Benito A, Meagher WM. (2011) Negative affect heightens opiate withdrawal-induced hyperalgesia in heroin abusers. *J Addict Dis.* 30(3):258-70.
- Miller T, **Carcoba L**, Mittal S, Mallikarjunaiah B. & Tassinary LG. (2010). Old wine in new bottles: New insights into the ERN via the response-signal method. *Psychophysiology*, 47, S70.
- Young, E.E., Sieve, A.N., Vichaya, E., **Carcoba, L.M.**, Young, C.R., Ambrus, A., Storts, R., Welsh, J.R and Meagher, M.W. (2010), Chronic restraint stress during early Theiler's virus infection exacerbates the subsequent demyelinating disease in SJL mice: II. CNS disease severity, *Journal of Neuroimmunology*. 220(1-2); pp. 79-89.
- Vichaya E, Baumbauer K, **Carcoba LM**, Grau JW, and Meagher MW. (2009), Spinal glia modulate both adaptive and pathological processes, *Brain, Behavior, and Immunity* 23 (7) pp. 969-976
- Young EE, Sieve AN, Vichaya E, **Carcoba LM**, Steelman AJ, Young CR, Storts R, Welsh TH, Welsh CJR and Meagher MW. (2008) Impact of chronic restraint stress during early Theiler's virus infection on CNS disease severity in SJL mice *Brain, Behavior, and Immunity*, 22 (4), Supplement 1, p 24.
- Carcoba LM**, Santiago M, Moss DE, Cabeza R. (2008) In utero methanesulfonyl fluoride differentially affects learning and maze performance in the absence of long-lasting cholinergic changes in the adult rat. *Pharmacology, Biochemistry and Behavior*, 88 (4); pp.3774-384

Book Chapters:

- Tassinary L, Hess U, and **Carcoba LM** (2012). Peripheral Physiological Measures of Psychological Constructs. In *APA Handbook of Research Methods in Psychology* Harris Cooper (Editor)(Vol 1, Part III, Section 5). Washington, DC. American Psychological Association.

Papers under review:

- Carcoba LM**, Talamantes F, Briones D, Diaz GA., Gender Differences in Hispanic and Non-Hispanic Geriatric Population with Obstructive Sleep Apnea” for publication in *Sleep and Breathing* Journal.
- Jimenez-Castro, **Carcoba L**, Escamilla M. “Substance use disorder comorbidity with bipolar disorder in a Latino sample from Mexico, Central America and the Southwest United States” for publication in the *Journal of Affective Disorders*.
- Heller PL, Briones D, Escamilla MA, **Carcoba LM**, Weisman HW, Ledger EM, Social Support, Social Participation, And Cognitive Function: Findings From A Community Sample Of Elderly Mexican Americans And Non-Hispanic Whites Residing In A United States-Mexico Border County for publication in *Sociological Spectrum*.

Manuscripts in preparation:

Carcoba L., Zavala J., Ramirez M., Escamilla M., Comorbidity among Mental Disorders and Drug Abuse in a Sample of Hispanic Population.

Abstracts:

Luis M. Carcoba; James E. Orfila; Oscar V. Torres; Luis A. Natividad; Joseph A. Pipkin; Patrick L. Ferree; Eddie Castañeda; Donald Moss; and Laura E. O'Dell . Cholinergic transmission during nicotine withdrawal is influenced by age and pre-exposure to nicotine. Behavior, Biology and Chemistry: Translational Research Addiction, San Antonio, TX. March 14-16, 2014.

Carcoba, L.M., Pipkin, J.A., Orfila, J.E., Natividad, L.A., Moss, D.E., Castañeda, E., O'Dell, L.E. Examination of Cholinergic Activity during Nicotine Exposure and Withdrawal. National Hispanic Science Network's Thirteenth Annual International Conference "Shared Challenges and Opportunities for Achieving Health Equity with Ethnically Diverse Populations", Bethesda, MD. October, 2013.

Pipkin, J.A., Juardo, J., **Carcoba, L.M.** & O'Dell, L.E. Enhanced Rewarding Effects of Nicotine in Diabetic Rats. American Diabetes Association, 73rd Scientific Session, Chicago, IL. June 2013.

Carcoba, Luis M; Torres, Oscar V.: Natividad, Luis A; Gentil, Luciana and O'Dell Laura E. Behavioral, biochemical and molecular indices of stress are enhanced in female versus male rats experiencing nicotine withdrawal. Behavior, Biology and Chemistry: Translational Research Addiction, San Antonio, TX. March 9-10, 2013.

Carcoba L., Zavala J., Ramirez M., Escamilla M., Mental Disorders and Drug Abuse in a Sample of Hispanic Population. 5th Annual Research Colloquium, Texas Tech University Health Sciences Center, Paul L Foster School of Medicine, May 2011

Carcoba LM, Talamantes F, Briones D, Diaz GA., Gender Differences in Hispanic and Non-Hispanic Geriatric Population with Obstructive Sleep Apnea” 5th Annual Research Colloquium, Texas Tech University Health Sciences Center, Paul L Foster School of Medicine, May 2011

Young E.E., Sieve A.N., Vichaya E.G., **Carcoba L.M.**, Steelman A.J., Young C.R., Storts R., Welsh T.H., Welsh C.J.R., & Meagher M.W. Impact of chronic restraint stress during early Theiler's virus infection on CNS disease severity in SJL mice. Program No. 251.25. Neuroscience Meeting Planner. Washington, DC: Societyfor Neuroscience. (2008).

Carcoba LM, Contreras AE, Cepeda-Benito A, Meagher WM Effects of affect modulation on hyperalgesia in heroin abusers during opiate withdrawal. Soc. Of Neurosciences, San Diego, Cal. Nov, 2007, 723.15

E. E. Young, E. G. Vichaya, **L.M Carcoba**, M. W. Meagher, Prior exposure to chronic social stress sensitizes zymosan-induced mechanical allodynia Soc. Of Neurosciences, San Diego, Cal. Nov, 2007, 284.11

Carcoba LM, Contreras AE, Cepeda-Benito A, Meagher WM Negative affect heightens opiate withdrawal-induced hyperalgesia in heroin abusers. National Hispanic Science Network on Drug Abuse Seventh Annual Conference. Miami. FL. Sept, 2007.

Elisabeth Good Vichaya, Kyle M. Baumbauer, **Luis M. Carcoba**, James W. Grau, and Mary W. Meagher. The Impact of Glial Cell Inhibition on Spinal Instrumental Learning. Psychoneuroimmunology Research Society Conference. Paris, France, May, 2007

Carcoba, L.M., Good, E., and Meagher, M.W. Role of stress and glia activation in opiate reward and withdrawal hyperalgesia. . 11th. Neuroscience Symposium, Austin, TX, March 2007.

Carcoba Luis Miguel., Santiago M., Moss, Donald E. and Cabeza Rafael. Effects of in utero metanesulfonyl fluoride (msf), an acetylcholinesterase inhibitor, on cholinergic markers. Society of Neurosciences, Atlanta GA, Oct 2006 162.11

Good, E., **Carcoba, L.M.** , Baumbauer, K.M., Grau, J.W., and Meagher, M.W. Administration of fluorocitrate blocks the acquisition of an instrumental response in spinal rats. Society of Neurosciences, Atlanta GA, Oct 2006 555.14

Carcoba, L.M., Good, E., and Meagher, M.W. Chronic Social Stress exacerbates morphine induced hyperalgesia and conditioned place preference. National Hispanic Science Network on Drug Abuse Sixth Annual Conference. Scottsdale, AZ. Sept, 2006.

Good, E., **Carcoba, L.M.** , Baumbauer, K.M., Grau, J.W., and Meagher, M.W. The Role of Glial Cells in Spinal Plasticity, Department of Psychology. Texas A&M University, College Station, TX, USA, Mar. 2006.

Carcoba Luis Miguel. Effects of *in utero* MSF Exposure on Behavior, Sleep and Cholinergic Markers, Institute for Neurosciences, X Annual Neuroscience Symposium, Austin, TX., Dec. 2005.

Good, E., **Carcoba, L.M.**, Johnson, R.R., Terasaki, J.M., and Meagher, M.W. Assessing the Affective Component of Pain in Mice using the Place-Avoidance Paradigm. Soc. Of Neurosciences, Washington D.C, Nov., 2005, 436.7

Carcoba Luis Miguel, Sanchez Oscar, Moreno Cesar, Moss Donald E. and Rafael Cabeza. In Utero Exposure to Methanesulfonyl Fluoride Does Not Alter the Basal Level of Anxiety in Rats. Ninth RCMI International Symposium on Health Disparities, Baltimore, MD., Dec., 2004.

Sanchez O., **Carcoba L.M.**, Reyes, R., Cabeza R, I, and Moss D. E. Effects of In Utero MSF Exposure on the Dose Response to Scopolamine in Two Different Spatial Memory Tasks. Ninth RCMI International Symposium on Health Disparities, Baltimore, MD., Dec. 2004.

Sierra Gustavo, Moreno Cesar, **Carcoba Luis**, Donald Moss, Cabeza Rafael. "Effects of in utero exposure to methanesulfonyl fluoride on metabolic rate, core body temperature and

learning in the rat". 9th International symposium on health disparities. Baltimore, MD., Dec. 2004.

Carcoba L.M., Sierra G., Sanchez O., Santiago M.I, Cabeza R,I, and Moss D. E. Differential Effects of In Utero Exposure to Methanesulfonyl Fluoride On Two Different Spatial Memory Tasks. Soc. Of Neurosciences, San Diego,Cal. Oct., 2004, 436.7

Carcoba L.M., Cabeza R ,.Moreno C, Sumaya I.C., Moss D.E Efectos sobre el Sueno de la Exposicion in utero a Fluoruro de sulfometano y posterior tratamiento con ⊗ THC. Sociedad Mexicana para la Investigacion y Medicina del Sueno, Queretaro, Mexico,.2003.

Sierra G., **Carcoba L.M.** , Sanchez O., Santiago M.I, Cabeza R,I, and Moss D.E., "Efectos de la exposicion en utero a fluoruro de sulfometano sobre el metabolismo y cambios de la temperatura corporal inducidos por nicotina" en el V Congreso Nacional de la Sociedad del Sueno. Queretaro, Mex. October 2003.

Skills:

Bilingual (English and Spanish).

Computer proficiency (Word, Power Point, Excel, SPSS)

Writing and developing research protocols, teaching and supervising research staff and lab supervision.

Scientific literature search, manuscript preparation and presentation.

Assessment, review, and supervision of research procedures (human and animal research), according to applicable laws, regulations, policies, and procedures to ensure the highest standards of ethics, safety, and scientific integrity.