

# CURRICULUM VITAE

## PERSONAL INFORMATION

Name: **EMILIO DOMÍNGUEZ-SALAZAR**  
Place of Birth: Mexico city  
Nationality: Mexican  
Current address: University of Virginia  
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## ACADEMIC BACKGROUND

Profesional: División de Ciencias Biológicas y de la Salud  
Universidad Autónoma Metropolitana,  
Unidad Iztapalapa.  
1989-1996.  
Grade: Experimental Biologist.  
1997.  
Master: División de Ciencias Biológicas y de la  
Salud, Universidad Autónoma Metropolitana,  
Unidad Iztapalapa.  
1997-1999  
Grade : Master in Experimental Biology.  
PhD : Instituto de Neurobiología, U.N.A.M.  
Doctorado en Ciencias Biomédicas.  
1999- 2003  
Grade: PhD

## HONORS AND AWARDS

Award to investigation in Biological and Health Sciences Area 1995. Universidad Autónoma Metropolitana.  
Medal to Merit for Master studies, Universidad Autónoma Metropolitana, México, D.F.  
Fellowship CONACYT for Master degree  
Fellowship CONACYT for Doctoral degree  
Fellowship DGEP-UNAM for Doctoral degree

## TEACHING ACTIVITIES

General Physiology, Bachelor, Universidad Autónoma Metropolitana, México  
Statistics, Master, UNAM, Querétaro, México

## RESEARCH EXPERIENCE

**1990-1996:** I worked on sleep, depression, stress and sexual behavior in the laboratory of psychoneuroendocrinology with Dr. Javier Velazquez-Moctezuma in the Autonomous Metropolitan University (UAM) at Mexico City,

**1996-1997:** I was working in the same lab and teaching general physiology (Assistant Professor)

**1997-1998:** I worked in the same laboratory during my first year of master studies.

**1998-2003:** During my final year of Master studies and during my PhD worked in the laboratory of neuronal plasticity and sexual behavior with Dr. Raul G. Paredes on kindling (master) and sexual differentiation (PhD). Neurobiology Institute U.N.A.M. at Queretaro, Mexico.

**2003 to date:** Postdoctoral fellow (Research Associate) at University of Virginia working with Dr. Emilie Rissman on genetics and molecular basis of sexual behavior.

## **PUBLICATIONS**

Velázquez-Moctezuma J, Domínguez Salazar E and Cruz ML. The Effect of Prenatal Stress on Adult Sexual Behavior in Rats Depends on the Nature of the Stressor. *Physiol Behav* 53: 443-448, 1993.

Retana Márquez S, Domínguez Salazar E and Velázquez-Moctezuma J. Muscarinic and Nicotinic Influences on Masculine Sexual Behavior in Rats. Effects of Oxotremorine, Scopolamine and Nicotine. *Pharm Biochem Behav* 44:913-917, 1993.

Influencia del estrés prenatal sobre la conducta reproductiva en roedores. Velázquez Moctezuma J., Domínguez Salazar E., Cruz Rueda M.L. y Retana Márquez S. Chapter in "Temas Selectos de Neurociencias" Jr Velásquez-Moctezuma, Ed. México, Universidad Autónoma Metropolitana. 1995.

Velázquez-Moctezuma J., Domínguez Salazar E. and Retana-Márquez S. Effects of short- and long-term REM sleep deprivation on sexual behavior in male rats. *Physiol Behav* 59: 277-281, 1996.

Retana-Márquez S., Domínguez Salazar E. and Velázquez-Moctezuma. Effect of acute and Chronic stress on masculine sexual behavior in the rat., *J. Psychoneuroendocrinology*, Vol. 21 pp. 39-50. 1996

Dominguez-Salazar E, Portillo W, Baum MJ, Bakker, J and Paredes RG. Effect of prenatal androgen receptor antagonist or aromatase inhibitor on sexual behavior, partner preference and neuronal fos responses to estrous female odors in the rat accessory olfactory system. *Physiol. Behav.* 75:337-346. 2002.

Dominguez-Salazar E, Portillo W, Velazquez-Moctezuma J, Paredes RG. Facilitation of male-like coital behavior in female rats by kindling. *Behav Brain Res.* 2003 Mar 18;140(1-2):57-64.

Retana-Marquez S, Bonilla-Jaime H, Vazquez-Palacios G, Dominguez-Salazar E, Martinez-Garcia R, Velazquez-Moctezuma J. Body weight gain and diurnal differences of corticosterone changes in response to acute and chronic stress in rats. *Psychoneuroendocrinol* 2003 Feb;28(2):207-27.

Dominguez-Salazar E, Bateman H and Rissman EF. Background matters: Strain differences and estrogen receptor  $\alpha$  gene disruption interact to affect masculine sexual behavior. *Horm Behav.* In press.

Domínguez-Salazar E, Camacho FJ and Paredes RG. Prenatal blockade of androgen receptors reduces the number of intromissions needed to induce conditioned place preference after paced mating in female rats. *Pharmacol Biochem Behav.* In review.

Kudwa AE, Dominguez-Salazar E, Cabrera D, Sibley DR and Rissman EF. Dopamine D5 receptor modulates male and female sexual behavior in mice. *Psychopharmacol.* In review

## **SCIENTIFIC MEETINGS**

Cruz M.L., Domínguez E., Lemus A.E. y Pérez-Palacios G. : Efectos comparativos de hormonas sintéticas y esteroides naturales sobre la virilización hipotalámica inducida en ratas wistar. XXXIII Congreso Nacional de Ciencias Fisiológicas. Jalisco. México. 1990.

Cruz M.L., Domínguez E., Velázquez-Moctezuma J., Lemus A.E. and Pérez-Palacios G.: Differential effectiveness of early administration of T and its metabolites on sexual behavior in adulthood. 23rd Conference on Reproductive Behavior. California. E.U. 1991.

Retana S., Domínguez E. and Velázquez-Moctezuma J.: Muscarinic influences on masculine sexual behavior in rats. 23rd Conference on Reproductive Behavior. California. E.U. 1991.

Velázquez-Moctezuma J., Domínguez E. and Cruz M.L.: Prenatal stressors and changes on offspring sexual behavior. 23rd Conference on Reproductive Behavior. California. E.U. 1991.

Domínguez E., Velázquez-Moctezuma J. y Cruz M.L.: Cambios en la conducta reproductiva de ratas inducidos por diferentes formas de stress prenatal. XXXIV Congreso Nacional de Ciencias Fisiológicas. Colima. México. 1991.

Retana S., Domínguez E. and Velázquez-Moctezuma J.: Cholinergic participation in masculine sexual behavior regulation in rats. 21st Annual Meeting. Society for Neurosciences. Louisiana. E.U. 1991.

Velázquez-Moctezuma J., Cruz M.L. and Domínguez Salazar E.: REM sleep deprivation in pregnant rats induce sexual behavior impairments in offspring. 11th European Congress on Sleep Research. Helsinki, Finlandia. 1992.

Domínguez E., Retana S. and Velázquez Moctezuma J.: Efecto del stress agudo y crónico sobre la conducta sexual masculina. XXXIV Congreso Nacional de Ciencias Fisiológicas. Veracruz. México. 1992.

Cruz, M.L.; E. Domínguez; and J. Velázquez-Moctezuma: Effect of prenatal stress on reproductive behavior and lactation efficiency in female wistar rat. Conference on Reproductive Behaviour 1992. Halifax, N.S., E.U. 1992.

Javier Velázquez-Moctezuma, Emilio Domínguez Salazar and Socorro Retana. Effect of acute and chronic stress on masculine sexual behavior. XXIII Congress of the International Society of Psychoneuroendocrinology. Wisconsin, E.U. 1992.

Ferreira Nuño A., Rodríguez-Manzo G., Retana Márquez S., Domínguez Salazar E., Velázquez-Moctezuma J. y Fernández Guasti A. El efecto Coolidge altera el desarrollo de la saciedad sexual. XXXVIII Congreso Nacional de Ciencias Fisiológicas. Querétaro, 1995.

Retana Márquez S., Domínguez Salazar E., Bonilla Jaime H., Vázquez Palacios G., Aguirre Antonio M.G. y Velázquez-Moctezuma J. Efecto de diferentes estresores aplicados aguda y crónicamente sobre los niveles plasmáticos de corticosterona. XXXVIII Congreso Nacional de Ciencias Fisiológicas. Querétaro, Qro. México. 1995.

Domínguez Salazar E., Gómez Olivares J.L., Campos Muñiz C., Ferreira Nuño A. y Velázquez-Moctezuma J. Modificaciones en la respuesta inmune inducidas por diferentes formas de estrés. XXXVIII Congreso Nacional de Ciencias Fisiológicas. Querétaro, 1995.

Retana-Márquez S., Ferreira Nuño A., Domínguez Salazar E. and Velázquez-Moctezuma. Differential effects of restraint, immersion and electric foot shock. XXV Annual Meeting. Society for Neurosciences. San Diego, CA. E.U. 1995.

Ortiz R., Domínguez-Salazar E., Cortéz Barberena E., Najera O., Velázquez-Moctezuma J. Differential effect of diverse stressors on immune parameters. XXVII Congreso Anual. Sociedad de Neurociencias. New Orleans, LA. E.U. 1997.

Domínguez Salazar, E., Portillo Martínez W., Talavera, E. y Paredes, R.G. C-fos en el sistema de proyección vomeronasal después de la inducción de conducta sexual masculina en ratas hembras por encendido eléctrico del área preóptica media. XLI congreso anual de la Sociedad Mexicana de Ciencias Fisiológicas, S.L.P.1998.

Portillo W., V. López, E. Domínguez, E. Talavera and R.G. Paredes. Olfactory preference in copulating and non copulating male rats. XXVIII Congreso Anual de Neurociencias. Los Angeles, CA. E.U. 1997.

Domínguez Salazar, E.; Portillo W. y Paredes, R.G. Conducta sexual, preferencia sexual y olfatoria en ratas tratadas perinatalmente con ATD y flutamida. XLII congreso anual de la Sociedad Mexicana de Ciencias Fisiológicas. Zacatecas, Zac., 1999.

W. Portillo, E. Domínguez, A. Hurtazo and R.G. Paredes. Medial preoptic area kindling facilitates masculine sexual behavior in female rats but no modify FOS expression in the vomeronasal projection pathway. XXIX Congreso Anual. Sociedad de Neurociencias. Miami Beach, Florida, E.U. 1999.

E. Domínguez, W. Portillo, M.J. Baum, J. Bakker and R.G. Paredes. Neuronal Fos responses in the accessory olfactory system to estrous female pheromones in perinatally ATD and flutamide treated rats. Joint Meeting of the VIth International Conference on Hormones, Brain and Behavior & The Society of Behavioral Neuroendocrinology. Madrid, Spain. 2000.

E. Domínguez-Salazar, F.J. Camacho and R.G. Paredes. Androgens and aromatization are important for sexual differentiation in female rats. XXXI Annual Meeting of Society for Neurosciences. San Diego, CA. 2001.

E. Domínguez-Salazar, F.J. Camacho and R.G. Paredes. The prenatal blockade of androgen receptors facilitates conditioned place preference after paced mating in female rats. SBN annual meeting. Amherst, MA. 2002.

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