Curriculum Vitae of Juan M. Dominguez, Ph.D.

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Member of University Centers and Institutes:

- Institute for Neuroscience, The University of Texas at Austin
- Waggoner Center for Alcohol and Addiction Research, The University of Texas at Austin
- Center for Behavioral Neuroendocrinology, The University of Texas at Austin

EDUCATION:

Ph.D. in Psychology, Behavioral Neuroscience (2002), Department of Psychology, University at Buffalo, The State University of New York, Buffalo, NY.

B.A. in Psychology, concentration in Biopsychology (1995), Department of Psychology, University at Buffalo, The State University of New York, Buffalo, NY.

ACADEMIC POSITIONS:

2013-Present: Area Head, Behavioral Neuroscience Area. The University of Texas at Austin, Department of Psychology
2012-Present: Associate Professor. The University of Texas at Austin, Department of Psychology and Institute for Neuroscience.
2008-2012: Assistant Professor. The University of Texas at Austin, Department of Psychology and Institute for Neuroscience.
2006-2008: Assistant Professor. American University, Washington D.C., Department of Psychology; Behavior, Cognition, and Neuroscience Graduate Program.
2004-2006: Associate-Research Faculty. Florida State University, Department of Psychology & Neuroscience Program.
2002-2004: Postdoctoral Fellow. The University of Cincinnati College of Medicine, Department of Psychiatry and the Department of Molecular Biology, Neurobiology & Anatomy (dual appt.)

PUBLICATIONS:

Articles in refereed journals:

1. Tobiansky, D.J., Roma, P.G., Hattori, T., Will, R.G., Nutsch, V.L., & Dominguez, J.M. (2013). The medial preoptic area modulates cocaine-induced activity in female rats. *Behavioral Neuroscience, 127*(2): 293-302 (peer-reviewed)
2. Tobiansky, D.J., Hattori, T., Scott, J.M., Nutsch, V.L., Roma, P.G., and Dominguez, J.M. (2012). Sex-relevant olfactory stimuli activate the rat brain in an age-dependent manner. *NeuroReport, 23*: 1077-1083. (peer-reviewed)
3. Kleitz-Nelson, H. K., Dominguez, J. M., & Ball, G. F. (2010). A comparative approach to the study of dopamine and male sexual behavior: What can Japanese quail teach us? A reply to Pfaus (2010) *Behavioral Neuroscience*, *124*(6), 881-883. (peer-reviewed)

4. Kleitz-Nelson, H. K., Dominguez, J. M., & Ball, G. F. (2010). Dopamine release in the medial preoptic area is related to hormonal action and sexual motivation. *Behavioral Neuroscience*, *124*(6), 773-779. (peer-reviewed)
5. Dominguez, J. M., & Hull, E. M. (2010). Serotonin impairs copulation and attenuates ejaculation-induced glutamate activity in the medial preoptic area. *Behavioral Neuroscience*, *124*(4), 554-557. (peer-reviewed)
6. Westerman, A. T., Roma, P. G., Price, R. C., & Dominguez, J. M. (2010). Assessing the role of the medial preoptic area in ethanol-induced hypothermia. *Neuroscience Letters*, *475*(1), 25-28. (peer-reviewed)
7. Kleitz-Nelson, H. K., Dominguez, J. M., Cornil, C. A., & Ball, G. F. (2010). Is sexual motivational state linked to dopamine release in the medial preoptic area? *Behavioral Neuroscience*, *124*(2), 300-304. (peer-reviewed)
8. Westerman, A. T., Roma, P. G., Creed, E. T., Hurwitz, Z. E., & Dominguez, J. M. (2009). The antiepileptic primidone impairs male rat sexual behavior. *Pharmacology, Biochemistry, and Behavior*, *93*(2), 160-164. (peer-reviewed)
9. Dominguez, J. M. (2009). A role for preoptic glutamate in the regulation of male reproductive behavior. *The Neuroscientist*, *15*(1), 11-19. (peer-reviewed)
10. Kohut, S. J., Roma, P. G., Davis, C. M., Zernig, G., Saria, A., Dominguez, J. M., Rice, K. C., & Riley, A. L. (2009). The impact of early environmental rearing condition on the discriminative stimulus effects and Fos expression induced by cocaine in adult male and female rats. *Psychopharmacology*, *203*(2), 383-397. (peer-reviewed)
11. Dominguez, J. M., Balfour, M. E., Lee, H. S., Brown, J. L., Davis, B. A., & Coolen, L. M. (2007). Mating activates NMDA receptors in the medial preoptic area of male rats. *Behavioral Neuroscience*, *121*(5), 1023-1031. (peer-reviewed)
12. Hull, E. M., & Dominguez, J. M. (2007)*. Sexual behavior in male rodents. *Hormones and Behavior*, *52*(1), 45-55. (peer-reviewed)
13. Muschamp, J. W., Dominguez, J. M., Sato, S., Shen, R. Y., & Hull, E. M. (2007). A role for hypocretin (orexin) in male sexual behavior. *The Journal of Neuroscience*, *27*(11), 2837-2845. (peer-reviewed)
14. Davis, C. M., Roma, P. G., Dominguez, J. M., & Riley, A. L. (2007). Morphine-induced place conditioning in Fischer and Lewis rats: Acquisition and dose-response in a fully biased procedure. *Pharmacology, Biochemistry, and Behavior*, *86*(3), 516-523. (peer-reviewed)
15. Dominguez, J. M., Brann, J. H., Gil, M., & Hull, E. M. (2006). Sexual experience increases nitric oxide synthase in the medial preoptic area of male rats. *Behavioral Neuroscience*, *120*(6), 1389-1394. (peer-reviewed)
16. Hull, E. M., & Dominguez, J. M. (2006)*. Getting his act together: Roles of glutamate, nitric oxide, and dopamine in the medial preoptic area. *Brain Research*, *1126*(1), 66-75. (peer-reviewed)
17. Dominguez, J. M., Gil, M., & Hull, E. M. (2006). Preoptic glutamate facilitates male sexual behavior. *The Journal of Neuroscience*, *26*(6), 1699-1703. (peer-reviewed)
18. Dominguez, J. M., & Hull, E. M. (2005)*. Dopamine, the medial preoptic area, and male sexual behavior. *Physiology & Behavior*, *86*(3), 356-368. (peer-reviewed)

19. Dominguez, J. M., Muschamp, J. W., Schmich, J. M., & Hull, E. M. (2004). Nitric oxide mediates glutamate-evoked dopamine release in the medial preoptic area. *Neuroscience*, *125*(1), 203-210. (peer-reviewed)
20. Powell, W. S., Dominguez, J. M., & Hull, E. M. (2003). An NMDA antagonist impairs copulation and the experience-induced enhancement of male sexual behavior in the rat. *Behavioral Neuroscience*, *117*(1), 69-75. (peer-reviewed)
21. Dominguez, J. M., & Hull, E. M. (2003). Medial amygdala regulates mating-induced dopamine release in medial preoptic area. *Annals of the New York Academy of Sciences*, *985*(1), 515-518. (peer-reviewed)
22. Lonstein, J. S., Dominguez, J. M., Putnam, S. K., De Vries, G. J., & Hull, E. M. (2003). Intracellular preoptic and striatal monoamines in pregnant and lactating rats: Possible role in maternal behavior. *Brain Research*, *970*(1-2), 149-158. (peer-reviewed)
23. Dominguez, J. M., & Hull, E. M. (2001). Stimulation of the medial amygdala enhances medial preoptic dopamine release: Implications for male rat sexual behavior. *Brain Research*, *917*(2), 225-229. (peer-reviewed)
24. Dominguez, J. M., Riolo, J. V., Xu, Z., & Hull, E. M. (2001). Regulation by the medial amygdala of copulation and medial preoptic dopamine release. *The Journal of Neuroscience, 21*(1), 349-355. (peer-reviewed)
25. Matuszewich, L., Lorrain, D. S., Trujillo, R., Dominguez, J. M., Putnam, S. K., & Hull, E. M. (1999). Partial antagonism of 8-OH-DPAT's effects on male rat sexual behavior with a D_2, but not a 5-HT_{1A}, antagonist. *Brain Research, 820*(1-2), 55-62. (peer-reviewed)
26. Hull, E. M., Lumley, L. A., Matuszewich, L., Dominguez, J. M., Moses, J., & Lorrain, D. S. (1994). The roles of nitric oxide in sexual function of male rats. *Neuropharmacology, 33*(11), 1499-1504. (peer-reviewed)

*denotes review article, co-authors equally contributed.

Articles Forthcoming:

Nutsch, V.L., Hattori, T., Tobiansky, D.J., Will R.G., & Dominguez, J.M. (In re-submission to *Behavioural Brain Research*). Sexual experience influences mating-induced activity in nitric oxide synthase-containing neurons in the medial preoptic area of male rats.

Will, R.G., Nutsch, V.L., Turner, J.T., & Dominguez, J.M. (Under review with *Behavioral Neuroscience*). Astrocyte density in the medial preoptic area correlates with male sexual activity

Nutsch, V.L. and Dominguez, J.M. (Under review; invited review article for special issue of *Endocrinology*). Estradiol and the aging male brain.

Will R.G., Hull, E.M., & Dominguez, J.M. (Under review; Invited review article for special issue of *Pharmacology, Biochemistry & Behavior*). Influences of dopamine and glutamate in the medial preoptic area on male sexual behavior.

Book chapters:

27. Hull, E.M. & Dominguez, J.M. (In press). Male sexual behavior. In McCarthy, M. (Ed.), *Knobil and Neill's: Physiology of Reproduction*. Academic Press.

28. Hull, E. M. & Dominguez, J. M. (2012). Sexual behavior. In R.J. Nelson and S. Mizumori (Eds.), *Handbook of Psychology, 2nd edition, Vol. 3, Behavioral Neuroscience* (pp. 331-364). Wiley & Sons.
29. Hull, E. M., Dominguez, J. M., & Muschamp, J. W. (2006). Neurochemistry of male sexual behavior. In Abel Lajtha & Jeffrey Blaustein (Eds.). *Handbook of Neurochemistry and Molecular Neurobiology 3rd Edition* (pp. 37-94). New York, NY: Springer Publishers.
30. Hull, E. M., & Dominguez, J. M. (2003). Sex behavior. In M. Gallagher, R.J. Nelson, & I.B. Weiner (Eds.), *Handbook of Psychology, Volume 3, Biological Psychology* (pp. 321-353). Wiley & Sons.

Book:

31. Hull, E. M., & Dominguez, J.M. (2009). *Study Guide for Kalat's Biological Psychology Textbook 10th Edition.* Wadsworth Press.

GRANTS & FELLOWSHIPS

Awarded:

National Institute of Health Research Project Grant, R21-DA-023604, 2009-2012.
A Role for the medial preoptic area in regulating gender-sensitive differences in response to cocaine, OSP# 200900916.
Project Period: 6/20/2009-5/31/2012. ($401,360 Direct and indirect total)
Role: Principal Investigator
2009 2010 ($219,680)
2010-2011 ($181,680)

National Institutes of Health Research Project Grant, R01-DA-032789, 2012-2017.
A role for the preoptic area in modulating cocaine reward, OSP# 201100355.
Project Period: 4/1/2012-3/31/2017. ($1,500,773 Direct and indirect total)
Role: Principal Investigator
2012-2013 ($299,991)
2013-2014 ($300,289)
2014-2015 ($300,424)
2015-2016 ($300,167)
2016-2017 ($299,902)

Submitted:

National Science Foundation Project Grant, NSF-IOS-1225057, pending review.
Reproductive experience and the brain, OSP# 201100091.
Project Period: 1/01/2013 - 12/31/2016. ($509,773 proposed budget)

National Science Foundation REU Site Grant, NSF-SMA-1063096, pending re-submission.
REU Site: SuRe Texas Psychology.
Project Period: 5/1/2013-4/30/2016. ($259,560 proposed budget)

Past:

Postdoctoral Fellowship, NIH Training Grant (8/1/2002-6/30/2004)
Salary $27,000 per year.

Graduate Student Fellowship, NIH (9/1/1996-5/31/1999)
$2,400 per year stipend plus paid tuition.

AWARDS/FELLOWSHIPS & HONORS:

Andrew W. Mellon Foundation, Career Enhancement Award, $4,000 awarded November 2006
Text and Academic Authors Association publication grant $200 awarded.
The Young Investigator Award, The Society for Behavioral Neuroendocrinology (2004)
Award for Postdoctoral Fellows, The Society for Behavioral Neuroendocrinology (2003)
Scholar, The Society for Neuroscience (2002)
The Graduate Student Excellence in Teaching Award, University at Buffalo, The State University of New York (2002)
Outstanding Graduate Student Research Award, awarded by Sigma Xi, The Scientific Research Society, Western New York State chapter competition (2002)
Conway Institute of Biomedical Research, Graduate Student Award, 9th International Conference on In Vivo Methods (Dublin, Ireland, 2001)
Outstanding Graduate Student Research Award, awarded by Sigma Xi, The Scientific Research Society, Western New York State chapter competition (2001)
Mark Diamond Foundation Fellowship, in support of outstanding research (2001-2002)
Graduate Student Teaching Recognition, Department of Psychology, University at Buffalo, The State University of New York, Buffalo, NY (1999)
Ronald E. McNair Scholar (1995)

SCHOLARLY PRESENTATIONS/ABSTRACTS:

Tobiansky, D.J., Hattori, T., Will, R.G., Turner, J.M., Nutsch, V. L., & Dominguez, J. M. (2012, October). *Phenotyping medial preoptic area efferents that influence the mesolimbic system*. Paper presented at the meeting of the Society for Neuroscience (42nd Annual Meeting), New Orleans, LA.

Will, R.G., Nutsch, V. L., Turner, J.M., & Dominguez, J. M. (2012, October). *Density of astrocytes in the preoptic area correlates with sexual efficacy in naive males*. Paper presented at the meeting of the Society for Neuroscience (42nd Annual Meeting), New Orleans, LA.

Nutsch, V. L., Will, R.G., Turner, J.M., & Dominguez, J. M. (2012, October). *Mating-induced activation of cells containing dopamine receptor in the medial preoptic area of male rats*. Paper presented at the meeting of the Society for Neuroscience (42nd Annual Meeting), New Orleans, LA.

Tobiansky, D.J., Will, R.G., Nutsch, V. L., Hattori, T., & Dominguez, J. M. (2012, June). *Dopamine-sensitive GABA-producing cells in the medial preoptic area project to the ventral tegmental area*. Poster presented at the meeting of the Society for Behavioral Neuroendocrinology, Madison, Wisconsin.

Tobiansky, D.J., Roma, P.G., Hattori, T., Will, R.G., Nutsch, V. L., & Dominguez, J. M. (2012, June). *The medial preoptic area modulates cocaine-induced reward*. Poster presented at the meeting of the Society for Behavioral Neuroendocrinology, Madison, Wisconsin.

Will, R.G., Nutsch, V. L., & Dominguez, J. M. (2012, June). *Astrocytes in the preoptic area may modulate copulation in males*. Poster presented at the meeting of the Society for Behavioral Neuroendocrinology, Madison, Wisconsin.

Nutsch, V. L., Hattori, T., Tobiansky, D.J., & Dominguez, J. M. (2012, June). *Mating activates nitric oxide synthase containing cells in the paraventricular nucleus*. Poster presented at the meeting of the Society for Behavioral Neuroendocrinology, Madison, Wisconsin.

Tobiansky, D. J., Roma, P. G., Hattori, T., Nutsch, V. L., Puga, F., & Dominguez, J. M. (2011, November). *The medial preoptic area modulates cocaine-induced reward*. Paper

presented at the meeting of the Society for Neuroscience (41st Annual Meeting), Washington, D.C.

Nutsch, V. L., Hattori, T., Tobiansky, D. J., Gore, A. C., & Dominguez, J. M. (2011, November). *Aging influences mating-induced activation of estrogen-sensitive cells in the medial preoptic area*. Paper presented at the meeting of the Society for Neuroscience (41st Annual Meeting), Washington, D.C.

Tobiansky, D. J., Hattori, T., & Dominguez, J. M. (2010, November). *The medial preoptic area influences cocaine-induced activity in the ventral tegmental area*. Paper presented at the meeting of the Society for Neuroscience (40th Annual Meeting), San Diego, CA.

Nutsch, V. L., & Dominguez, J. M. (2010, November). *Colocalization of nitric oxide synthase and mating-induced Fos in the medial preoptic area of male rats*. Paper presented at the meeting of the Society for Neuroscience (40th Annual Meeting), San Diego, CA.

Kleitz-Nelson, H. K., Dominguez, J. M., & Ball, G. F. (2010, November). *Dopamine release in the medial preoptic area is linked to sexual motivation*. Paper presented at the meeting of the Society for Neuroscience (40th Annual Meeting), San Diego, CA.

Tobiansky, D. J., Hattori, T., Westerman, A. T., D'Addesio, E., & Dominguez, J. M. (2010, July). *Sex-relevant olfactory stimuli activate brain regions in an age dependent manner*. Paper presented at the meeting of the Society for Behavioral Neuroendocrinolog*y*, Toronto, Canada.

Nutsch, V. L., Wu, D., Gore, A. C., & Dominguez, J. M. (2010, July). *Age and sexual experience influence mating-induced phosphorylation of NMDA receptors in the medial preoptic area*. Poster presented at the meeting of the Society for Behavioral Neuroendocrinology, Toronto, Canada.

Tobiansky, D. J., Hattori, T., D'Addesio, E., Westerman, A. T., & Dominguez, J. M. (2010, April). *Sexually relevant olfactory stimuli activate the medial preoptic nucleus in an age-dependent manner*. Paper presented at the meeting of the Association for Chemoreception Sciences (32nd Annual Meeting), St. Petersburg, FL.

Dominguez, J. M., Roma, P. G., Price, R. C., & Westerman, A. T. (2008, November). *Assessing the role of the medial preoptic area in ethanol-induced hypothermia and ataxia*. Paper presented at the meeting of the Society for Neuroscience (38th Annual Meeting), Washington, D.C.

Kleitz-Nelson, H. K., Dominguez, J. M., & Ball, G. F. (2008, July). *Extracellular dopamine release in the medial preoptic area of male Japanese quail as measured by in vivo microdialysis during sexual behavior*. Paper presented at the meeting of the Society for Behavioral Neuroendocrinology, Groningen, The Netherlands.

Westerman, A. T., Roma, P. G., & Dominguez, J. M. (2007, November). *The antiepileptic primidone impairs male rat sexual behavior*. Paper presented at the meeting of the Society for Neuroscience (37th Annual Meeting), San Diego, CA.

Muschamp, J. W., Dominguez, J. M., Sato, S. M., Shen, R. Y., & Hull, E. M. (2007, November). *Increased Fos-immunoreactivity in hypocretin (orexin)-apposed ventral tegmental area dopamine neurons during male rat sexual behavior*. Paper presented at the meeting of the Society for Neuroscience (37th Annual Meeting), San Diego, CA.

T. Blutstein, L. Risley, B. K. Yamamoto, Dominguez, J. M., & Mong, J. A. (2007, November). *Estradiol modulates vesicular glutamate content in the arcuate nucleus*. Paper presented at the meeting of the Society for Neuroscience (37th Annual Meeting), San Diego, CA.

Dominguez, J. M., & Hull, E. M. (2006, October). *Serotonin inhibits mating-induced glutamate activity in the medial preoptic area: Implications for impaired libido resulting from SSRIs*. Paper presented at the meeting of the Society for Neuroscience (36th Annual Meeting), Atlanta, GA.

Dominguez, J. M., Gil, M., & Hull, E. M. (2006, June). *Mating-induced glutamate release in the medial preoptic area of male rats: Regulation of ejaculation and refractory period*. Paper presented at the meeting of the Society for Behavioral Neuroendocrinology, Pittsburgh, PA.

Muschamp, J. W., Sato, S., Dominguez, J. M., & Hull, E. M. (2006, June). *Gonadal regulation of hypocretin (orexin) immunoreactivity in male rats hypothalamus*. Paper presented at the meeting of the Society for Behavioral Neuroendocrinology, Pittsburgh, PA.

Dominguez, J. M., Gil, M., Brann, J. H., & Hull, E. M. (2005, December). *Serotonin inhibits mating-induced glutamate activity in the medial preoptic area:* Implications for impaired libido resulting from SSRIs. American College of Neuropsychopharmacology (ACNP) 44th annual meeting, Waikoloa, HI.

Dominguez, J. M., Gil, M., Hood, A. F., & Hull, E. M. (2005, November). *Mating-induced glutamate release in the medial preoptic area of male rats: Regulation of ejaculation and refractory period*. Paper presented at the meeting of the Society for Neuroscience (35th Annual Meeting), Washington, D.C.

Gil, M., Smith, D. J., Hood, A. F., Dominguez, J. M., & Hull, E. M. (2005, November). *cAMP-dependent protein kinase inhibition in the medial preoptic area impairs copulatory behaviors in male rats.* Paper presented at the meeting of the Society for Neuroscience (35th Annual Meeting), Washington, D.C.

Dominguez, J. M., Gil, M., Hood, A. F., & Hull, E. M. (2005, June). *Sexual experience increases nitric oxide synthase in the medial preoptic area of male rats.* Paper presented at the meeting of the Society for Behavioral Neuroendocrinology, Austin, TX.

Gil, M., Smith, D. J., Hood, A. F., Dominguez, J. M., & Hull, E. M. (2005, June). *cAMP-dependent protein kinase inhibition in the medial preoptic area impairs copulatory behaviors in male rats*. Paper presented at the meeting of the Society for Behavioral Neuroendocrinology, Austin, TX.

Straiko, M. M. W., Coolen, L. M., Jenkins, W. J., Dominguez, J. M., & Gudelsky, G. A. (2004, May). *Treatment with a monoamine-depleting regimen of MDMA diminishes the rewarding properties of sex in male rats*. Paper presented at the meeting of the Ohio Miami Valley Chapter of the Society for Neuroscience, Wright State University, Dayton, OH.

Dominguez, J. M., Gil, M., & Hull, E. M. (2004, October). *Colocalization of nitric oxide synthase with NMDA receptors in the medial preoptic area: implications for sexual behavior*. Paper presented at the meeting of The Society for Neuroscience (34th Annual Meeting), San Diego, CA.

Gil, M., Smith, D. J., Dominguez, J. M., & Hull, E. M. (2004, October). *The effects of cAMP-dependent protein kinase inhibition in the medial preoptic area on copulatory behaviors in sexually naïve rats*. Paper presented at the meeting of The Society for Neuroscience (34th Annual Meeting), San Diego, CA.

Straiko, M. M. W., Coolen, L. M., Jenkins, W. J., Dominguez, J. M., & Gudelsky, G. A. (2004, October). *Treatment with a monoamine-depleting regimen of MDMA diminishes the*

rewarding properties of sex in male rats. Paper presented at the meeting of The Society for Neuroscience (34th Annual Meeting), San Diego, CA.

Dominguez, J. M. (2004, July; Young Investigator Award Presentation). *Activation of NMDA receptors in the medial preoptic nucleus is essential for the expression of male sexual behavior*. Paper presented at the meeting of the Society for Behavioral Neuroendocrinology, Lisbon, Portugal.

Davis, J. F., Balfour, M. E., Aronow, B. J., Truitt, W. A., Dominguez, J. M., Jenkins, W. J., & Coolen, L. M. (2004, July). *Male sexual behavior causes transcriptional alterations of the mosolimbic system.* Paper presented at the meeting of the Society for Behavioral Neuroendocrinology, Lisbon, Portugal.

Dominguez, J. M., Balfour, M. E., & Coolen, L. M. (2003, November). *Copulation-induced activation of NMDA and AMPA receptor containing neurons in the medial preoptic nucleus (slide presentation)*. Paper presented at the meeting of The Society for Neuroscience (33rd Annual Meeting), New Orleans, LA.

Dominguez, J. M., Balfour, M. E., & Coolen, L. M. (2003, June). *Copulation-induced activation of NMDA receptor containing neurons in the medial preoptic nucleus*. Paper presented at the meeting of the Society for Behavioral Neuroendocrinology, Cincinnati, OH.

Truitt, W. A., Dominguez, J. M., & Coolen, L. M. (2003, June). *Galanin infusions into the medial parvocellular subparafascicular thalamic nucleus inhibit male sexual behavior*. Poster presented at the meeting of the Society for Behavioral Neuroendocrinology, Cincinnati, OH.

Dominguez, J. M., Muschamp, J. W., Cedeno, C. D., Schmich, J. M., & Hull, E. M. (2003, November). *Glutamate-evoked dopamine release in the medial preoptic area is mediated by nitric oxide: Implications for male rat sexual behavior.* Glutamate and Disorders of Cognition and Motivation, a New York Academy of Sciences Conference*,* Yale University, New Haven, CT.

Dominguez, J. M., Muschamp, J. W., Cedeno, C. D., Schmich, J. M., & Hull, E. M. (2002, November). *Glutamate-evoked dopamine release in the medial preoptic area is mediated by nitric oxide: Implications for male rat sexual behavior.* Paper presented at the meeting of The Society for Neuroscience (32nd Annual Meeting), Orlando, FL.

Faulring, C. S., Cruz, R., Dominguez, J. M., & Hull, E. M. (2002, November). *Chronic fluoxetine inhibits sexual behavior in the male rat: Reversal with 8-OH-DPAT and LY-53,857*. Paper presented at the meeting of The Society for Neuroscience (32nd Annual Meeting), Orlando, FL.

Sato, S., Riolo, J. V., Dominguez, J. M., & Hull, E. M. (2002, November). *Does cyclic GMP mediate the NO-induced DA release in the male rat MPOA?* Paper presented at the meeting of The Society for Neuroscience (32nd Annual Meeting), Orlando, FL.

Dominguez, J. M., Muschamp, J. W., Cedeno, C. D., Schmich, J. M., & Hull, E. M. (2002, June). *Glutamate-evoked dopamine release in the medial preoptic area is mediated by nitric oxide: Implications for male rat sexual behavior*. Paper presented at the meeting of the Society for Behavioral Neuroendocrinology, Amherst, MA.

Faulring, C. S., Cruz, R., Dominguez, J. M., & Hull, E. M. (2002, June). *Chronic fluoxetine inhibits sexual behavior in the male rat: Reversal with 8-OH-DPAT and LY-53,857*. Paper presented at the meeting of the Society for Behavioral Neuroendocrinology, Amherst, MA.

Sato, S., Riolo, J. V., Dominguez, J. M., & Hull, E. M. (2002, June). *Does cyclic GMP mediate the NO-induced DA release in the male rat MPOA?* Paper presented at the meeting of the Society for Behavioral Neuroendocrinology, Amherst, MA.

Dominguez, J. M., & Hull, E. M. (2002, December). *The medial amygdala regulates mating-induced dopamine release in the medial preoptic area.* Paper presented at the meeting of the International Academy of Sex Research, Hamburg, Germany.

Dominguez, J. M., Muschamp, J. W., Cedeno, C. D., Schmich, J. M., & Hull, E. M. (2002, November). *Glutamate-evoked dopamine release in the medial preoptic area is mediated by nitric oxide: Implications for male rat sexual behavior.* Paper presented meeting of Sigma Xi, The Scientific Research Society, Chapter Meeting, Buffalo, NY.

Dominguez, J. M., & Hull, E. M. (2002, March). *The medial amygdala regulates mating-induced dopamine release in the medial preoptic area*. The Amygdala in Brain Function: Basic and Clinical Approaches, a New York Academy of Sciences Conference, Galveston, TX.

Dominguez, J. M., Smith, D. J., Faulring, C. S., & Hull, E. M. (2001, November). *Stimulation of the medial amygdala induces medial preoptic dopamine release: Implications for male sexual behavior*. Paper presented at the meeting of The Society for Neuroscience (31st Annual Meeting), San Diego, CA.

Lonstein, J. S., Dominguez, J. M., Putnam, S. K., De Vries, G. J., & Hull, E. M. (2001, November). *Intracellular preoptic and striatal dopamine and serotonin during pregnancy and lactation in rats.* Paper presented at the meeting of The Society for Neuroscience (31st Annual Meeting), San Diego, CA.

Smith, D. J., Dominguez, J. M., & Hull, E. M. (2001, November). *Reversal of sexual satiety by a 5HT2 receptor antagonist*. Paper presented at the meeting of The Society for Neuroscience (31st Annual Meeting), San Diego, CA.

Dominguez, J. M., Smith, D. J., Faulring, C. S., & Hull, E. M. (2001, June). *Stimulation of the medial amygdala induces medial preoptic dopamine release: Implications for male sexual behavior*. Paper presented at the meeting of the Society for Behavioral Neuroendocrinology, Scottsdale, AZ.

Lonstein, J. S., Dominguez, J. M., Putnam, S. K., De Vries, G. J., & Hull, E. M. (2001, June). *Intracellular preoptic dopamine and serotonin during pregnancy and lactation in rats*. Paper presented at the meeting of the Society for Behavioral Neuroendocrinology, Scottsdale, AZ.

Smith, D. J., Dominguez, J. M., & Hull, E. M. (2001, June). *Reversal of sexual satiety by a 5HT2 receptor antagonist.* Paper presented at the meeting of the Society for Behavioral Neuroendocrinology, Scottsdale, AZ.

Dominguez, J. M., Smith, D. J., Faulring, C. S., & Hull, E. M. (2001, November). *Stimulation of the medial amygdala induces medial preoptic dopamine release: Implications for male sexual behavior*. Paper presented at Sigma Xi, The Scientific Research Society, Chapter Meeting, Buffalo, NY.

Smith, D. J., Dominguez, J. M., & Hull, E. M. (2001, November). *Reversal of sexual satiety by a 5HT2 receptor antagonist*. Paper presented at Sigma Xi, The Scientific Research Society, Chapter Meeting, Buffalo, NY.

Dominguez, J. M., Riolo, J. V., Xu, Z., & Hull, E. M. (2001, June). *Lesions of the medial amygdala impair copulation and attenuate extracellular dopamine in the MPOA*. Paper

presented at the 9th International Conference on in vivo Methods: Monitoring Molecules in Neuroscience, Dublin, Ireland.

Dominguez, J. M., Riolo, J. V., Xu, Z., & Hull, E. M. (2001, January). *Lesions of the medial amygdala impair copulation and attenuate extracellular dopamine in the MPOA*. Paper presented at the 32nd Annual Winter Conference on Brain Research, Steamboat Springs, CO.

Dominguez, J. M., Riolo, J. V., Xu, Z., & Hull, E. M. (2000, November). *Lesions of the medial amygdala impair copulation and attenuate extracellular dopamine in the MPOA*. Paper presented at the meeting of The Society for Neuroscience (30th Annual Meeting), New Orleans, LA.

Dominguez, J. M., Riolo, J. V., Xu, Z., & Hull, E. M. (2000, August). *Lesions of the medial amygdala impair copulation and attenuate extracellular dopamine in the MPOA*. Paper presented at the meeting of the Society for Behavioral Neuroendocrinology, Madrid, Spain.

Dominguez, J. M., Riolo, J. V., Xu, Z., & Hull, E. M. (2000, November). *Lesions of the medial amygdala impair copulation and attenuate extracellular dopamine in the MPOA*. Paper presented at Sigma Xi, The Scientific Research Society, Chapter Meeting, Buffalo, NY.

Dominguez, J. M., & Hull, E. M. (1999, October). *Influence of olfactory exposure to an estrous female on nitric oxide synthase in the MPOA of male rats*. Paper presented at the meeting of The Society for Neuroscience (29th Annual Meeting), Miami Beach, FL.

Dominguez, J. M., & Hull, E. M. (1999, June). *Influence of olfactory exposure to an estrous female on nitric oxide synthase in the MPOA of male rats.* Paper presented at the meeting of the Society for Behavioral Neuroendocrinology, Charlottesville, VA.

Panos, J. J., Sato, S., Powell, W. S., Putnam, S. K., Du, J., Markowski, V. P., Dominguez, J. M., & Hull, E. M. (1998, November). *The effects of prenatal TCDD treatment on male sexual behavior in rats.* Paper presented at the meeting of The Society for Neuroscience (28th Annual Meeting), Los Angeles, CA.

Lorrain, D. S., Matuszewich, L., Friedman, R. D., Dominguez, J. M., Putnam, S. K., & Hull, E. M. (1997, October). *Lateral hypothalamic 5-HT release may influence mesolimbic dopamine during the male rat's PEI.* Paper presented at the meeting of The Society for Neuroscience (27th Annual Meeting), New Orleans, LA.

Dominguez, J. M., Davis, R., Lorrain, D. S., & Hull, E. M. (1997, May). *A dopamine agonist in the MPOA of male rats restores copulation after amygdala lesions*. Paper presented at the meeting of the Society for Behavioral Neuroendocrinology, Baltimore, MD.

Du, J., Dominguez, J. M., Wang, J., Putnam, S. K., & Hull, E. M. (1997, May). *Dopamine facilitation of copulation in castrates depends on steroid hormone receptors*. Paper presented at the meeting of the Society for Behavioral Neuroendocrinology, Baltimore, MD.

Dominguez, J. M., Davis, R., Lorrain, D. S., & Hull, E. M. (1997, November). *A dopamine agonist in the MPOA of male rats restores copulation after amygdala lesions*. Paper presented at Sigma Xi, The Scientific Research Society, Chapter Meeting, Buffalo, NY.

Dominguez, J. M., & Hull, E. M. (1995, November). *Inhibition of nitric oxide synthase impairs copulation, but not sexual motivation or motor activity, in male rats*. Paper presented at Sigma Xi, The Scientific Research Society, Chapter Meeting, Buffalo, NY.

Dominguez, J. M., & Hull, E. M. (1994, November). *Inhibition of nitric oxide synthase impairs copulation, but not sexual motivation or motor activity, in male rats*. Paper presented at the National Ronald McNair Scholars Meeting, State College, PA.

Dominguez, J. M., & Hull, E. M. (1994, June). *Inhibition of nitric oxide synthase impairs copulation, but not sexual motivation or motor activity, in male rats*. Paper presented at the 26th Conference on Reproductive Behavior, Bethlehem, PA.

INVITED SYMPOSIA:

Dominguez, J. M. (2006, March). *Genes, transmitters, and sexual experience.* Symposium conducted at the Workshop on Steroid Hormones and Brain Function/Seventh Annual Conference on Sex and Gene Expression—Combined Meeting, Breckenridge, CO.

Dominguez, J. M. (2003, June) *The Cincinnati Zoo: Endocrinology in Unusual Settings.* Symposium conducted at the Annual Meeting of the Society for Behavioral Neuroendocrinology, Cincinnati, OH.

INVITED PRESENTATIONS/COLLOQUIA:

Dominguez, J. M. (2013, April). *Hypothalamic and endocrine modulation of natural and artificial reward*. Invited presentation for the Howard Hughes Medical Institute, Inquiry Initiative, at Southwestern University, Georgetown, TX.

Dominguez, J. M. (2012, October). *Hypothalamic and endocrine modulation of natural and artificial reward*. Invited presentation for the Neuroscience Program at Trinity University, San Antonio, TX.

Dominguez, J. M. (2011, April). *Preoptic-hypothalamic modulation of reward.* Invited presentation for the Department of Department of Neurobiology and Anatomy at The University of Texas Medical School, Houston, TX.

Dominguez, J. M. (2011, March). *Sex, drugs, and rock & roll: Why the MPOA matters.* Invited presentation for the Pharmacology Department at The University of Texas at Austin, Austin, TX.

Dominguez, J. M. (2011, May). *Hypothalamic and endocrine modulation of cocaine reward.* Invited presentation for the Institute for Neuroscience at The University of Texas at Austin, Austin, TX.

Dominguez, J. M. (2010, May). *The preoptic area: Sex, drugs, and rock & roll.* Invited presentation for the Institute for Neuroscience at The University of Texas at Austin, Austin, TX.

Dominguez, J. M. (2009, October). *The MPOA and mating Behavior: Implications for mechanisms of reward.* Invited presentation for the Department of Psychology at the University of Michigan, Ann Arbor, MI.

Dominguez, J. M. (2009, February). *The MPOA and Mating Behavior: Implications for mechanisms of reward.* Invited presentation for The Waggoner Center for Alcohol and Addiction Research, The University of Texas at Austin, Austin, TX.

Dominguez, J. M. (2008, April). *The MPOA and mating behavior: Implications for mechanisms of reward.* Invited presentation for the Department of Psychology at The University of Texas, Austin, TX.

Dominguez, J. M. (2008, November). *Mating in males: Dopamine, glutamate, and the preoptic area.* Invited presentation for the Institute for Neuroscience, The University of Texas at Austin, Austin, TX.

Dominguez, J. M. (2008, March). *Male reproductive behavior: Regulation by glutamate and dopamine in the preoptic area.* Invited presentation for the Department of Psychology and Program in Neuroscience at Arizona State University, Tempe, AZ.

Dominguez, J. M. (2008, January). *Male reproductive behavior: Regulation by glutamate and dopamine in the preoptic area.* Invited presentation for the Department of Psychology and Center for Neuroscience Research, University at Albany, The State University of New York, Albany, NY.

Dominguez, J. M. (2008, March). *Male reproductive behavior: Regulation by glutamate and dopamine in the preoptic area.* Invited presentation for the Department of Psychology, Neuroscience & Behavior Program, University of California, Santa Barbara, CA.

Dominguez, J. M. (2007, October). *Male reproductive behavior: Regulation by glutamate and dopamine in the preoptic area.* Invited presentation for the Department of Psychology, Behavioral Neuroscience Program, University of North Carolina, Chapel Hill, NC.

Dominguez, J. M. (2007, September). *Male reproductive behavior: Regulation by glutamate and dopamine in the preoptic area.* Invited presentation for the Department of Biology, Program in Neurobiology, Biophysics, and Development, University of Maryland, College Park, MD.

Dominguez, J. M. (2007, July). *Male reproductive behavior: Regulation by glutamate and dopamine in the preoptic area.* Invited presentation for the Department of Psychological and Brain Sciences, Johns Hopkins University, Baltimore, MD.

Dominguez, J. M. (2006, November). *Male reproductive behavior: Regulation by glutamate and dopamine in the preoptic area.* Invited presentation for the Psychology Department & Neuroscience Program, Michigan State University, East Lansing, MI.

Dominguez, J. M. (2005, October). *Male reproductive behavior: Regulation by glutamate and dopamine in the preoptic area.* Invited presentation for the Department of Psychology, American University, Washington, D.C.

Dominguez, J. M. (2005, November). *Male reproductive behavior: Regulation by glutamate and dopamine in the preoptic area.* Invited presentation for the Psychology Department & Center for Neuroscience, University of Illinois at Chicago, Chicago, IL.

Dominguez, J. M. (2004, September). *Male reproductive behavior: Regulation by glutamate and dopamine in the preoptic area.* Invited presentation for the Psychology Department & Neuroscience Program, Florida State University, Tallahassee, FL.

Dominguez, J. M. (2004, July). *Activation of NMDA receptors in the medial preoptic nucleus is essential for the expression of Fos and male sexual behavior.* Young Investigator Award Presentation, Meeting of the Society for Behavioral Neuroendocrinology, Lisbon, Portugal.

Dominguez, J. M. (2004, June). *Keynote Address.* Invited presentation for the Ronald McNair Minority Student Conference, University of Buffalo, Buffalo, NY.

Dominguez, J. M. (2004, January). *Influences of medial preoptic glutamate and dopamine on male sexual behavior.* Invited presentation for the Psychology and Molecular Biology Departments, Princeton University, Princeton, NJ.

Dominguez, J. M. (2003, November). *Copulation-induced activation of NMDA and AMPA receptor containing neurons in the medial preoptic nucleus.* Invited presentation for the Society for Neuroscience Annual Meeting, Orlando, FL.

Dominguez, J. M. (2001, November). *Regulation by the medial amygdala of medial preoptic dopamine and male sexual behavior.* Invited presentation for the Department of Molecular Biology & Neurobiology, University of Cincinnati College of Medicine, Cincinnati, OH.

TEACHING EXPERIENCE:

University Courses (course title):

Hormones and Behavior *
Neurobiological Basis of Behavior
Physiological Psychology *
Sensation and Perception
Brain and Behavior
Biopsychology of Reproduction *
Introduction to Psychology
Biological Basis of Mental Disorders
Advances in Mental and Neurobiological Disorders
Behavioral Neuroscience
Biological Psychology
* denotes graduate-level courses

Supervision of Undergraduate Research Assistants:

Julia Martz, BS is Psychology, expected 2014.
Jacquelyn Alvarez, BS in clinical laboratory sciences expected 2013.
Samira Chowdhury, BS in neurobiology 2013, presently graduate student of health policy and management at Emory University.
Isha Kaul, BS in neurobiology, 2013.
Trisha Lalapet, BS in microbiology 2013, presently graduate student of pharmacology at Texas Tech University Health Sciences Center.
Danielle Peacock, BS in neurobiology 2013.
Emily Daddesio, presently medical student at Univ Texas Health Science Center at San Antonio
Divya Janardhanan, presently undergraduate student in neurobiology at UT
Huy Nguyen, presently medical student at Texas Tech School of Medicine
Julia Scott, presently medical liaison for Medical Innovative Technologies in Hawaii
Sameera Siddiqi, presently neurobiology undergraduate student at UT
Kevin Thi, presently neurobiology undergraduate student at UT
Laura Ryan, 2009-2010 (undergraduate Honors student). Graduated May 2010: Graduate student, University of Texas Austin.
Rebecca Price, 2007-2008. Graduated May 2009: Graduate student, McGill University, Montreal Canada, Neuroscience Dept.
Anna Olsen, 2007-2008. Graduated December 2009: Peace Corp.
Sofia M. Muñiz, 2007-2008 (Ronald McNair Student). Graduated May 2008: Graduate Student, Columbia University, NY.
Zachary Hurwitz, 2007-2008. Graduated May 2008: Graduate Student, American University, Department of Psychology.

Ashley T. Westerman, 2006-2008. Graduated May 2008 Summa Cum Laude: Graduate student, Johns Hopkins University, Department of Psychology.
Christie Pizzimenti, 2006-2008. Graduated May 2008: Graduate student, University of Rochester School of Medicine and Dentistry, Department of Neurobiology and Anatomy.
Elizabeth Beaudry, 2006-2007. Graduated May 2007: Sibley Hospital, Washington, D.C.
Kristin Clements, 2006-2007. Graduated May 2007: Research Assistant at Walter Reed Army Medical Institute.
Jenny M. Schmich, 2001-2002. Graduated May 2002: Attended graduate school at the University at Buffalo, School of Medicine and Biomedical Sciences.
Whitney S. Powell, 2000-2001. Graduated May 2001: Attended graduate school at New York University, College of Arts and Sciences.

Supervision of Doctoral Dissertation:

Daniel Tobiansky, B.S., 2006, DePaul University and M.A., 2009, Florida Atlantic University. Ph.D. student at The University of Texas at Austin.
Victoria (Tori) Nutsch, B.S. and B.A., 2008, University of Washington. Ph.D. student at The University of Texas at Austin.
Ryan G. Will, B.S., 2011, Centre College. Ph.D. student at the University of Texas at Austin.
Jonathan M. Turner, B.S., 2011, Vassar College. Ph.D. student at the University of Texas at Austin.
Krittika Krishnan, B.S., 2012, Mary Baldwin College. Ph.D. student at the University of Texas at Austin (starting fall 2012).

Supervision of Post-Doctoral Fellows:

Frank Puga, Ph.D., 2010-2011. Senior Research Scientist. The University of Texas Health Science Center, San Antonio, Texas
Kevin Lominac, Ph.D. 2012- present.

Member, Doctoral Dissertation Committees:

Yasisca Khouri, Department of Psychology, The University of Texas at Austin.
Bailey Kermath, College of Pharmacy, The University of Texas at Austin.
Christy Schier, College of Pharmacy, The University of Texas at Austin.
Michelle Naugle, College of Pharmacy, Institute for Neuroscience, The University of Texas at Austin.
Tierney Ahrold, Department of Psychology, The University of Texas at Austin. (Defended, 2012)
Eimeira Padilla, Department of Psychology, Institute for Neuroscience, The University of Texas at Austin. (Defended, 2009)
Christel Bastida, Department of Psychology, Institute for Neuroscience, The University of Texas at Austin.
Lauren O'Connell, School of Biological Sciences, Institute of Cell and Molecular Biology, The University of Texas at Austin.
Pete Roma, Department of Psychology: Behavior, Cognition and Neuroscience Program, American University. (Defended, 2008)
Kevin Freeman, Department of Psychology: Behavior, Cognition and Neuroscience Program, American University (Defended, 2007).
Jermaine Jones, Department of Psychology: Behavior, Cognition and Neuroscience Program, American University. (Defended, 2007)
Patricia Hall, Department of Biology: Behavior, Cognition and Neuroscience Program, American University. (Defended, 2010)

Tamara Blutstein, Department of Pharmacology & Experimental Therapeutics, University of Maryland, School of Medicine. (Defended, 2009)

Member, Masters Thesis Committees:

Terena Herbert, Department of Chemistry: Behavior, Cognition and Neuroscience Program, American University.

Sarah Moore, Department of Psychology: Clinical Psychology Program, American University (Defended, October 2007).

Stephen J. Kohut, Department of Psychology: Behavior, Cognition and Neuroscience Program, American University (Defended, May 2007).

Jennifer Rinker, Department of Psychology: Behavior, Cognition and Neuroscience Program, American University (Defended, June 2007).

PROFESSIONAL SERVICE:

Chair, Membership, Division 6, *The American Psychological Association (APA;* 2013).
Awards Committee, *The Society for Behavioral Neuroendocrinology* (2013-present)
Program Committee, *The Society for Behavioral Neuroendocrinology* (2009-2012).
Director*, Summer Research Program, The University of Texas at Austin, Dept of Psychology* (2008-present).
Institutional Animal Care and Use Committee (2006-2008).
Graduate Curriculum Committee (2006-2008).
Premed Committee (2006-2008).
Ronald McNair Mentor (2006-2008).
Education Committee, *The Society for Behavioral Neuroendocrinology* (2003-2005).
Graduate Studies Committee (1997-2001).

Non-institutional Service:
Judge for student presentations, Society for Advancement of Chicanos and Native Americans in Science
Judge for presentations in neuroscience*, National Research Conference for Historically Black Colleges and Universities Undergraduate Programs (HBCU-UP)*
Judge for poster presentations*, The Society for Behavioral Neuroendocrinology Annual Meeting*

AD HOC REVIEWS:

Addiction Biology (2011 – present)
Behavioral Neuroscience (2003 – present)
Behavioural Brain Research (2012 – present)
Biological Psychiatry (2005 – present)
Brain, Behavior and Evolution (2011 – present)
Brain Research (2006 – present)
Brain Research Bulletin (2008 – present)
Chinese Journal of Physiology (2008 – present)
Developmental Neurobiology (2006 – present)
European Journal of Neuroscience (2006 – present)
Frontiers in Behavioral Neuroscience (2011 – present)
Genes, Brain and Behavior (2006 – present)
Hormones and Behavior (2006 – present)
Journal of Neuroendocrinology (2004 – present)
Journal of Neuroscience (2007 – present)
Journal of Sexual Medicine (2006 – present)
Learning and Behavior (2006 – present)

Naturwissenschaften (2007 – present)
Neuroscience (2004 – present)
Neuroscience and Biobehavioral Reviews (2003 – present)
Neuropsychopharmacology (2006 – present)
Pharmacology, Biochemistry and Behavior (2007 – present)
Physiology and Behavior (2004 – present)
Psychoneuroendocrinology (2005 – present)
Psychopharmacology (2011 – present)

PROFESSIONAL SOCIETIES:

American Association for the Advancement of Science (2000 – 2004)
American Psychological Association (1998 – present)
Division 6: Behavioral Neuroscience and Comparative Psychology
Association for Psychological Science (2007 – present)
Eastern Psychological Association (2006 – present)
International Behavioral Neuroscience Society (2004-2008)
Molecular and Cellular Cognition Society (2006 – present)
New York Academy of Sciences (2001 – 2005)
Organization for the Study of Sex Differences (2005 – present)
SACNAS, Society for Advancement of Chicano and Native Americans in Science (2011 – present)
Sigma Xi, The Scientific Research Society (2000 – 2002)
Society for Behavioral Neuroendocrinology (1994 – present)
Society for Neuroscience (1997 – present)
Society for Women's Health Research (2005 – present)
Society of Biological Psychiatry (2004 – 2008)

EDITORIAL BOARDS:

Behavioral Neuroscience, 2007 – present
Frontiers in Behavioral Neuroscience, 2011 – present
Learning & Behavior, 2007 – present
Physiology & Behavior, 2008 – present

GRANT REVIEW SERVICES:

National Institutes of Health, Biobehavioral Regulation, Learning and Ethology (BRLE) Study Section, section member, appointed July 1, 2012 – June 30, 2018.
National Institutes of Health, Biobehavioral Regulation, Learning and Ethology (BRLE) Study Section, ad hoc, 2011.
National Science Foundation, ad hoc, 2008, 2009, 2013.
National Science Foundation, MOD 1 review panel member, 2013.