

# Adam N. Perry, PhD

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## ACADEMIC BACKGROUND

- 2009**      **Doctorate in Neuroscience, University of Illinois at Chicago**  
**Title of thesis:** Estrogen Receptor Expression and the Social Brain.  
Advisors: Prof. Bruce S. Cushing and Prof. C. Sue Carter.
- 2001**      **Masters Degree in Biology, Arizona State University**  
**Title of thesis:** Sex Change in *Thalassoma bifasciatum*: Interactions of Social Behavior and Arginine Vasotocin.  
Advisors: Prof. Matthew S. Grober.
- 1999**      **Bachelors Degree in Zoology, Summa Cum Laude, Arizona State University**  
**Title of thesis:** The Effects of Exhibit Composition on the Behavior of the Giraffe (*Cameleopardalis reticulata*).  
Advisors: Prof. Matthew S. Grober.

## RESEARCH AND PROFESSIONAL EXPERIENCE

- 2015 – present**    **University of Texas at EL Paso – Research Assistant Professor**
- 2014 – 2015**      **University of Texas at EL Paso – Post-doctoral Research Fellow**
- 2009 – 2014**      **University of Michigan – Post-doctoral Research Fellow**
- 2002 – 2009**      **University of Illinois – Ph.D. Graduate Student**
- 2001 – 2002**      **University of Maryland – Ph.D. Graduate Student**
- 1995 – 2001**      **Arizona State University - Undergraduate Student, Field/Lab Assistant, Masters Student**

## GRANTS / RESEARCH SUPPORT

- National Institute of Drug Abuse (NIDA); **R21 Exploratory/Developmental Grant:** Norepinephrine and dopamine: mediating drug vs. natural rewards, Project Number: DA032856, co-PI with Dr. Jill B. Becker (Funding Period: 2012-2014)
- National Institute of Drug Abuse (NIDA); **T32 Training Grant** to the University of Michigan: Postdoctoral Training in the Biology of Drug Abuse, Project Number DA007268, PI Dr. John Traynor (Funding Period: 2009-2012).
- National Institute of Drug Abuse (NIDA); **F31 Pre-doctoral NRSA:** Social attachment as a model for addiction, Project Number: DA018034, (Funding Period: 2004-2007). Awarded to Adam N. Perry, PI Dr. Bruce S. Cushing.
- Graduate Student Council **Travel Award** (University of Illinois at Chicago), \$300, 2006
- Vole Workshop **Travel Award** (sponsored by Emory University), \$500, 2009

## TEACHING EXPERIENCE

- 2017**      **Team-taught Co-Instructor – Introductory Neuroscience,** University of Texas at El Paso
- 2008**      **Teaching Assistant – Neuroscience I,** University of Illinois at Chicago
- 2007-2008**    **Teaching Assistant – Homeostasis,** University of Illinois at Chicago
- 2007**      **Teaching Assistant – Plant Biology,** University of Illinois at Chicago
- 2004-2006**    **Teaching Assistant – Physiology for Pharmacy,** University of Illinois at Chicago
- 2003-2005**    **Teaching Assistant – Physiology for Applied Health Sciences,** University of Illinois at Chicago
- 2002-2003**    **Teaching Assistant – Human Physiology,** University of Illinois at Chicago
- 2002**      **Outstanding Performance Award for Teaching Assistants,** University of Maryland, \$200
- 2001-2002**    **Teaching Assistant – Mammalian Physiology,** University of Maryland, College Park
- 2001**      **Teaching Assistant – Developmental Biology,** University of Maryland, College Park

## MENTORING EXPERIENCE

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**Undergraduates** **Ruta Grinceviciute**, University of Texas at El Paso, BRIDGES to Baccalaureate program (Summer 2017), year-long BRIDGES to Baccalaureate program (Fall 2017-Summer 2018).  
**Dina Torres**, University of Texas at El Paso, BUILD Scholars program (Fall 2016-present).  
**Rebecca Lees**, University of Texas at El Paso, SMARTMINDS program (Summer 2016).  
**Clarissa Salinas**, University of Texas at El Paso, SMARTMINDS program (Summer 2016).  
**Alexa Fritz**, University of Texas at El Paso, SMARTMINDS program (Summer 2015).  
**Jose Landeros**, University of Texas at El Paso, (Summer 2015-present). BRIDGES to Baccalaureate program (Summer 2015), year-long BRIDGES to Baccalaureate program (Fall 2015-Summer 2016), COURI SURPASS program (Fall 2016). Presented his research at the conference of the Society for Neuroscience (2017).  
**Auratip Paramadilok**, University of Illinois at Chicago (Fall 2006-Spring 2007). Received the Sarah Madonna Kabbes Scholarship for Undergraduate Research (2007) and was awarded first place at the Honors College Poster Symposium (2007).

## ACADEMIC ACTIVITIES & SERVICE

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**Judge** for student poster presentations at the COURI Summer Symposium, sponsored by the University of Texas at El Paso Campus Office of Undergraduate Research Initiatives, August 5, 2017.

**Participant** of the working conference: "Sex/Gender and Psychoactive Substances", sponsored by the University of Michigan's Substance Abuse Research Center and its Center for Advancing Research and Solutions for Society, Institute for Research on Women and Gender, and School of Social Work (2012).

**Member and contact person** of the local organizing committee for the 12th Annual Meeting of the Society for Behavioral Neuroendocrinology (SBN) 2008, which was held in Scottsdale, AZ July 7-10, 2008.

## INVITED TALKS & LECTURES

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**Invited speaker** for the College on Problems of Drug Dependence, Montreal, Canada. Panel: Applications of Choice Procedures to Drug Abuse Research. Speakers: Adam N. Perry, Steve Negus (Chair), Richard Lamb (Chair), M. Nader, J. Lile. June 22, **2017**. *Sex differences in the choice between cocaine and food reinforcers*

**Invited speaker** for the Winter Conference on Brain Research, Breckenridge, Colorado, USA. Panel: Animal Models of Compulsive Cocaine Intake. Speakers: Adam N. Perry, Tod E. Kippin (Chair), Sietse Jonkman, Friedbert Weiss. January 29, **2013**. *Modeling Dependence in Rats: Can choice behavior help us understand sex differences in addiction?*

**Invited speaker** at the Symposium for Prairie Vole Research, hosted by Dr. Larry J. Young, Emory University, Atlanta, Georgia. February 28, **2009**. *Sex and the Single Vole: Social Isolation, ER $\alpha$  Expression and Reproductive Behavior*

**Invited lecturer** in PHYB 341 Physiology for Applied Health Sciences. Invited to lecture by Dr. Sergey Popov and Dr. Dale Hales, Dept. Physiology & Biophysics. November 7, 2005/November 17, 2006. *Energy and Temperature Control*.

**Invited lecturer** for Physiology Conference Seminar. Invited to serve as instructor by Dr. John Kennedy, Dept. Physiology & Biophysics January 28, 2005/February 17, 2006/February 23, 2007. *Neuroendocrine Regulation of Social Behavior*.

**Invited speaker** for Departmental Seminar hosted by Dept. of Biochemistry, April 28, **2004**. *Oxytocin Signal Transduction: Filling in the "Black Box" of Attachment*.

## SCIENTIFIC MEMBERSHIPS

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2002 – present	Society for Behavioral Neuroendocrinology
2005 – present	Society for Neuroscience
2010 – present	Organization for the Study of Sex Differences

## EDITORIAL CONSULTATIONS (JOURNALS)

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PLOS ONE; Hormones and Behavior; Psychoneuroendocrinology; Addiciton Biology; Journal of Experimental Biology; Behavioral Pharmacology; Behavioral Process; Pharmacology, Biochemistry and Behavior; Physiology & Behavior.

## BOOK CHAPTERS

Author of a chapter in: **The Neuroscience of Sex**, Elsevier, 2015. Chapter: *Sex Differences and Addiction*. Authors: **A.N. Perry**, C. Westenbroek, and J.B. Becker.

Authored a chapter in: **The Encyclopedia of Human Behavior**, 2nd Ed. Elsevier, 2011. Chapter: *Hormones and Behavior*. Authors: J.B. Becker, J.A. Cummings, **A.N. Perry**, and C. Westenbroek.

## PUBLISHED PAPERS

\* co-first author, \*\* mentored student author

1. **A.N. Perry**, R.J. Ortiz\*\*, K.R. Hernandez, B.S. Cushing. 2017. Effects of methamphetamine on alloparental behavior in male and female prairie voles. *Physiology & Behavior*, Special Issue: Gender & Drugs. *Accepted September 11, 2017*. Advance Online Publication. doi: 10.1016/j.physbeh.2017.09.012
2. C. Westenbroek, **A.N. Perry**, L. Jagannathan, J.B. Becker. 2017. Effect of social housing and oxytocin on the motivation to self-administer methamphetamine in female rats. *Physiology & Behavior*, Special Issue: Gender & Drugs. *Accepted October 17 2017*. Advance Online Publication. <http://dx.doi.org/10.1016/j.physbeh.2017.10.020>
3. **A.N. Perry**, S.C. Carter, B.S. Cushing. 2016. Chronic social isolation enhances reproduction in the monogamous prairie vole (*Microtus ochrogaster*). *Psychoneuroendocrinology* 68: 20-28. doi: 10.1016/j.psyneuen.2016.02.016.
4. **A.N. Perry**, S.C. Carter, B.S. Cushing. 2015. Effects of postnatal estrogen manipulations on juvenile alloparental behavior. *Hormones and Behavior* 75: 11-7. doi: 10.1016/j.yhbeh.2015.07.019
5. **A.N. Perry**, C. Westenbroek, L. Jagannathan, J.B. Becker. 2015. The roles of dopamine and  $\alpha$ 1-adrenergic receptors in cocaine preferences in female and male rats. *Neuropsychopharmacology* 40(12): 2696-2704. doi: 10.1038/npp.2015.116.
6. **A.N. Perry**, C. Westenbroek, J.B. Becker. 2013. Development of a cocaine preference identifies individuals with increased motivation for drugs and escalation of intake in rats. *PLoS ONE*, Vol. 8(11): e79465. doi:10.1371/journal.pone.0079465.
7. **A.N. Perry**, C. Westenbroek\*, J.B. Becker. 2013. Impact of pubertal and adult estradiol treatments on cocaine self-administration. *Hormones and Behavior*, 64(4): 573-578. doi: 10.1016/j.yhbeh.2013.08.007.
8. C. Westenbroek, **A.N. Perry**, J.B. Becker. 2013. Pair housing differentially affects motivation to self-administer cocaine in male and female rats. *Behavioural Brain research*, 252:68-71. doi: 10.1016/j.bbr.2013.05.040.
9. J. Meitzen, **A.N. Perry**, C. Westenbroek, V.L. Hedges, J.B. Becker and P.G. Mermelstein. 2013. Enhanced striatal  $\alpha$ 1-adrenergic receptor expression following hormone loss in adulthood is programmed by both early sexual differentiation and puberty: a study of humans and rats. *Endocrinology*, 154(5): 1820-1831. doi: 10.1210/en.2012-2131.
10. J.A. Cummings, S.M. Clinton, **A.N. Perry**, H. Akil, J.B. Becker. 2013. Male rats that differ in novelty exploration demonstrate distinct patterns of sexual behavior. *Behavioral Neuroscience* 127(1): 47-58. doi: 10.1037/a0031528
11. J.B. Becker, **A.N. Perry**, C. Westenbroek. 2012. Sex differences in the neural mechanisms mediating addiction: a new synthesis and hypothesis. *Biology of Sex Differences*, 3(1): 14, doi: 10.1186/2042-6410-3-14.
12. **A.N. Perry**, A. Paramadilok\*\*, B.S. Cushing. 2009. Neonatal oxytocin alters subsequent estrogen receptor alpha protein expression and estrogen sensitivity in the female rat. *Behavioural Brain Research* 205(1):154-61. doi: 10.1016/j.bbr.2009.08.021.
13. K.M. Kramer, **A.N. Perry**, D. Golbin, B.S. Cushing. 2009. Sex steroids are necessary in the second postnatal week for the expression of male alloparental behavior in prairie voles (*Microtus ochrogaster*). *Behavioral Neuroscience* 123(5): 958-63. doi: 10.1037/a0016927.
14. B.S. Cushing, **A.N. Perry**, S. Ogawa, E. Papademetriou, S. Musatov. 2008. Estrogen receptors in the medial amygdala inhibit the expression of male prosocial behavior. *Journal of Neuroscience* 28(41): 10399-10403. doi: 10.1523/JNEUROSCI.
15. H. Pournajafi-Nazarloo, **A.N. Perry**, L. Partooo, E. Papademetriou, F. Azizi, C.S. Carter, B.S. Cushing. 2008. Neonatal oxytocin treatment modulates oxytocin receptor, atrial natriuretic peptide, nitric oxide synthase and estrogen receptor mRNAs expression in rat heart. *Peptides* 28(6): 1170-1177. doi: 10.1016/j.peptides.2007.04.022
16. **A.N. Perry**, M.S. Grober. 2002. Social control of sex change: interactions of glucocorticoids and sex steroids. *Hormones and Behavior* 43: 31-38. doi: 10.1016/S0018-506X(02)00036-3

## REFERENCES

Prof. Jill B. Becker, University of Michigan. Email: jbbecker@umich.edu. Tel: +1 (734)763-4363.

Prof. Bruce S. Cushing, University of Texas at El Paso. Email: bcushing@utep.edu. Tel: +1 (915)747-8894.

Prof. Laura E. O'Dell, University of Texas at El Paso. Email: lodell@utep.edu. Tel: +1 (915)747-6557.