Rebecca M Shansky, PhD

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CAREER HISTORY

Sept 2011 - present

Assistant Professor

Department of Psychology Northeastern University, Boston MA

Feb 2011 - Aug 2011

Research Scientist

Division of Integrative Neuroscience Columbia University, New York NY Laboratory of Alex Dranovsky, MD, PhD & David Leonardo, MD, PhD

Nov 2004 - Dec 2010

Post-doctoral Fellow

Department of Neuroscience Mount Sinai School of Medicine, New York NY Laboratory of John Morrison, PhD Co-mentors: Bruce McEwen, PhD and Joseph LeDoux, PhD

Sept 1999 - Sept 2004

PhD, Neurobiology

Department of Neurobiology Yale University, New Haven CT Laboratory of Amy Arnsten, PhD

Thesis title: Sex differences in stress-induced prefrontal cortex dysfunction: hormone and catecholamine interactions

Sept 1994 - May 1998

BA, Psychology

Columbia University, New York NY

FUNDING

Current

2017-2018

NIMH R56 MH11493

Title: Endocannabinoid modulation of stress coping in prefrontal-brainstem circuits

Total direct costs: \$256,000

2016-2018

Brain Research Foundation Fay/Frank Seed grant

Title: Chemogenetic dissection of sex-specific fear circuits

Total direct costs: \$80,000

Past

2012-2014

NIMH R21 MH098006-01

Title: Sex-specific neuroanatomical markers of vulnerability in an animal model of PTSD

Total direct costs: \$275,000

2006-2009

NIH/NIMH NRSA F32 MH075506-03

Title: Sex differences in stress-induced dendritic remodeling

PEER-REVIEWED PUBLICATIONS (reverse chronological)

J Colom-Lapetina, SL Begley, ME Johnson, KJ Bean, WN Kuwamoto, and **RM Shansky** (2017) "Strain-dependent sex differences in a long-term forced swim paradigm" *Behavioral Neuroscience* Aug 14 (ePub ahead of print)

RM Shansky and CS Woolley (2016) "Considering sex as a biological variable will be valuable for neuroscience research" *Journal of Neuroscience* November 23;36(47): 11817-11822

MR Farrell, F Holland, **RM Shansky,** and HC Brenhouse (2016) "Sex-specific effects of early life stress on social interaction and prefrontal cortex dendritic morphology in young rats" *Behavioral Brain Research* Sep 1; 310:119-25

TM Gruene, K Flick, S Rendall, JH Cho, JM Gray, and **RM Shansky** (2016) "Activity-dependent structural plasticity after aversive experiences in amygdala and auditory cortex pyramidal neurons" *Neuroscience* July 22;328:157-64 *Cover image

TM Gruene, K Flick, A Stefano, SD Shea, and **RM Shansky** (2015) "Sexually divergent expression of active and passive conditioned fear responses in rats." *eLife* Nov 14:4 *selected for "Insight" commentary in *eLife*. Additional commentary in *Trends in Neurosciences* by Jones & Monfils Feb 2016. Featured in *Scientific American Mind*, Nov 2016

TM Gruene, E Roberts, V Thomas, A Ronzio, and **RM Shansky** (2015) "Sex-specific neuroanatomical correlates of fear expression in prefrontal-amygdala circuits" *Biological Psychiatry* Aug 1;78(3): 186-93 *Cover image and commentary in this issue

MR Farrell, TM Gruene, and **RM Shansky** (2015) "The influence of stress and gonadal hormones on neuronal structure and function." Hormones and Behavior Nov;75:118-24

RM Shansky (2015) "Sex differences in PTSD resilience and susceptibility: challenges for animal models of fear learning" *Neurobiology of Stress* January (1): 60-65

TM Gruene, J Lipps, CD Rey, A Bouck, and **RM Shansky** (2014) "Heat exposure in female rats elicits abnormal fear expression and cellular changes in prefrontal cortex and hippocampus" *Neurobiology of Learning and Memory* Oct: 38-42

CD Rey, J Lipps, and **RM Shansky** (2014) "Dopamine D1-receptor activation rescues extinction impairments in low-estrogen female rats and induces cortical layer-specific activation changes in prefrontal-amygdala circuits." *Neuropsychopharmacology* Apr;39(5):1282-9

RM Shansky, J Lipps. (2013) "Stress-induced cognitive dysfunction: hormone-neurotransmitter interactions in the prefrontal cortex." Frontiers in Human Neuroscience 7:123.

RM Shansky, C Hamo, W Lou, PR Hof, BS McEwen and JH Morrison. (2010) "Estrogen promotes stress sensitivity in a prefrontal cortex-amygdala pathway" *Cerebral Cortex* Nov 20(11) 2560-7

RM Shansky (2009) "Estrogen, stress and the brain: progress toward unraveling gender discrepancies in major depressive disorder." Expert Review in Neurotherapeutics Jul 9(7): 967-73 Review.

RM Shansky and JH Morrison (2009) "Stress-induced dendritic remodeling in the medial prefrontal cortex: effects of circuit, hormones and rest". *Brain Research* Oct 13;1293:108-13. Review.

RM Shansky, C Hamo, PR Hof, BS McEwen and JH Morrison (2009) "Stress-induced dendritic remodeling in the prefrontal cortex is circuit-specific" *Cerebral Cortex* Oct;19(10):2479-84

RM Shansky, G Bender and AF Arnsten (2009) "Estrogen prevents norepinephrine alpha-2a receptor reversal of stress-induced working memory impairment". *Stress* 12(5):457-63

RM Shansky and AF Arnsten (2007) "Estrogen enhances stress-induced prefrontal cortex dysfunction: relevance to Major Depressive Disorder in women". *Dialogues in Clinical Neuroscience* 8(4): 4778-81 Review.

RM Shansky, K Rubinow, A Brennan, AF Arnsten (2006) "The effects of sex and hormonal status on restraint-stress-induced working memory impairment." *Behavioral Brain Function*. 2006 Mar 7;2:8.

AF Arnsten and **RM Shansky** (2004) "Adolescence: vulnerable period for stress-induced prefrontal cortical function? Introduction to part IV.". *Annals of the NY Academy of Science*. 1021: 143-7. Review.

RM Shansky, C Glavis-Bloom, D Lerman, P McRae, C Benson, K Miller, L Cosand, TL Horvath and AF Arnsten. (2004) "Estrogen mediates sex differences in stress-induced prefrontal cortex dysfunction" *Molecular Psychiatry* 9(5):531-8

BOOKS

RM Shansky, ed. Sex Differences in the Central Nervous System. San Diego: Elsevier, 2016

AWARDS AND HONORS

2014 Travel Award

American College for Neuropsychopharmacology (ACNP)

2008 New Investigator Award

Organization for the Study of Sex Differences Annual Meeting,

New Orleans LA

2007 Young Investigator Award

Workshop on Steroid Hormones and Brain Function, Breckenridge CO

2005 Florence P Haseltine Award for the Outstanding Poster Presentation by a New Investigator in Sex-Based Biology

Conference on Sex and Gene Expression, Winston-Salem NC

1998-2003 Trainee travel Award

Wisconsin Symposium on Emotion, Madison WI

INVITED TALKS

2017 Eastern Psychological Association Annual meeting, Boston MA

University of Cincinnati, Cincinnati OH

Dartmouth College, Hanover NH

Organization for the study of sex differences (OSSD) annual meeting, Montréal QC

University College at Cork, Cork, Ireland

Gordon Research Conference on Amygdala in Health and Disease, Easton MA

Mind and Life Institute Dialogue with the Dalai Lama, Gaborone Botswana

University of Pittsburgh, Pittsburgh PH Perdue University, West Lafayette, IN

University of Minnesota, Minneapolis, MN *scheduled for October 27

2016 ACNP annual meeting, Hollywood FL

University of Connecticut, Storrs CT

University of Massachusetts, Amherst MA

International Society for Psychoneuroendocrinology (ISPNE), Miami FL

Kavli Institute, Santa Barbara CA

Organization for the study of sex differences (OSSD) annual meeting, Philadelphia PA Yale University, New Haven CT Eastern Psychological Association Annual meeting, New York NY Boston College, Chestnut Hill MA Brown University, Providence RI Winter Conference on Brain Research, Breckenridge CO 2015 ACNP annual meeting, Hollywood FL Gordon Research Conference on Amygdala in Health and Disease, Easton MA University of North Texas Health Science Center, Fort Worth TX Emory University, Atlanta GA Cold Spring Harbor Laboratory, Cold Spring Harbor NY 2014 Walter Reed Army Institute of Research, Silver Spring MD University of Vermont, Burlington VT University of New South Wales, Sydney NSW Society for Behavioral Neuroendocrinology annual meeting, Sydney NSW University of British Columbia, Vancouver BC Washington State University, Pullman WA University of Calgary, Calgary AB Eastern Psychological Association annual meeting, Boston MA 2013 Society for Neuroscience annual meeting, San Diego CA Harvard Medical School/MGH, Charlestown MA University of Michigan, Ann Arbor MI 2012 McLean Hospital-Harvard Medical School, Belmont MA Stress Neurobiology Workshop, Philadelphia PA 2011 University of Texas at Austin, Austin TX University of Texas Health Sciences Center, San Antonio TX 2010 Division of Integrative Neuroscience, Columbia University, New York NY ASPET annual meeting, Anaheim CA 2007 Workshop on Steroid Hormones and Brain Function, Breckenridge CO 2004 Conference on Sex and Gene Expression (SAGE), Winston-Salem NC 2004 Graduate Student Research Symposium, Yale University, New Haven CT

PROFESSIONAL ASSOCIATIONS

Society for Neuroscience

Organization for the Study of Sex Differences (elected to council 2014)

Society for Behavioral Neuroendocrinology

PROFESSIONAL SERVICE/ACTIVITIES

2017	Membership chair, Organization for the Study of Sex Differences
2017	ad-hoc reviewer NIH Special Emphasis Panel, Emerging Technologies in Neuroscience
	(ETTN)
2015-201	7 Society for Neuroscience Public Education and Communication Committee
2016	ad-hoc reviewer NIH Special Emphasis Panel, Emerging Technologies in Neuroscience
	(ETTN)
2015-201	6 Co-chair, Networking Professional Development Workshop

2015	Society for Neuroscience Annual Meeting, Chicago IL & San Diego, CA ad-hoc reviewer NIH study section, Biobehavioral Regulation, Learning, & Ethology (BRLE)
2014	Panel speaker, Networking Professional Development Workshop
	Society for Neuroscience Annual Meeting, Washington DC
2012	
-present 2007-	Editorial Board Member, Frontiers in Behavioral Neuroscience
present	Ad-hoc reviewer: Nature, Biological Psychiatry, Molecular Psychiatry, Translational Psychiatry, Neuropsychopharmacology* eLife*, Neurobiology of Aging, Journal of Neuroscience*, Brain Research*, Neuroscience*, European Psychiatry, Behavioral Brain Research, Neuroscience and Biobehavioral Reviews, International Journal of Neuropsychopharmacology*, Human Brain Mapping, Frontiers in Behavioral Neuroscience*, Developmental Neuroscience, Learning and Memory, Neurobiology of Learning and Memory, Hormones and Behavior*, Physiology and Behavior, Behavioral Brain Research* * - 3 or more reviews
2001	Panel speaker at press conference on gender, stress, and memory at the Society for Neuroscience Annual Meeting – San Diego, CA