

## CURRICULUM VITAE

### Nesha S. Burghardt

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#### Education

- Ph.D. in Neural Science 1997-2006  
New York University, New York, NY
- B.A. in Psychology 1990-1994  
University of California, Berkeley, CA

#### Research Experience

- Assistant Professor, Department of Psychology 2014-Present  
Hunter College, CUNY, New York, NY
- Research Scientist, Division of Integrative Neuroscience 2009-2014  
Research Foundation for Mental Hygiene, New York, NY
- Postdoctoral Fellow, Departments of Neuroscience and Psychiatry 2006-2009  
Columbia University, New York, NY  
Sponsor: René Hen, Ph.D.
- Graduate Student, Center for Neural Science 1997-2006  
New York University, New York, NY  
Advisor: Joseph E. LeDoux, Ph.D.
- Undergraduate Research Assistant, Department of Psychology 1993-1997  
University of California, Berkeley, CA

#### Awards and Honors

- New York State Psychiatric Institute Research Associate Award 2011-2012
- Diversity Research Supplement, Cellular Mechanisms of Antidepressant Action (MH068542-07S1) 2009-2010
- Sackler Institute Award for Bridge Funding, Columbia University 2009-2009
- Neuroscience Scholars Program, Society for Neuroscience 2008-2011
- Research Supplement for Underrepresented Minority Graduate Student, Center for the Neuroscience of Fear and Anxiety (MH058911) 2004-2005
- Neuroscience Scholars Fellowship, Society for the Advancement of Native Americans and Chicanos in Science (SACNAS) 1999
- Psi Chi National Honor Society in Psychology 1992-1994
- Golden Key National Honor Society 1991-1994
- Dean's List at UC Berkeley 1990-1994

#### Invited Talks and Workshops

Broadening the Representation of Academic Investigators in Neuroscience (BRAINS) 2014  
National Symposium, Selected workshop participant, Bainbridge Island, WA

Rutgers University, Newark, Learning and Memory Seminar, New Jersey 2014  
“Effects of SSRI treatment on fear circuits”

American College of Neuropsychopharmacology, Annual Meeting, 2004  
San Juan, Puerto Rico  
“Insights into panic disorder from fear conditioning models”

Mount Sinai School of Medicine, Translational Interdepartmental 2003  
Seminar Series, New York, NY  
"How do SSRIs work? Clues from Neurobiological Studies of Fear"

### Public Outreach

Native People’s Forum, New York University, member 2007-Present  
Rubin Museum of Art, Brainwave, “Pieces of Mind,” discussion leader 2009  
Steven Johnson, “Mind Wide Open, Your Brain and the Neuroscience of  
Everyday Life,” research assistant and book editor 2002-2003

### Peer-reviewed Publications

**Burghardt, N.S. & Bauer, E.P.** (2013) Acute and Chronic Effects of SSRI Treatment on Fear  
Conditioning: Implications for Underlying Fear Circuits. Neuroscience, 247:253-72.

Kheirbek, M.A., Drew, L.J., **Burghardt, N.S.**, Costantini, D.O., Tannenholz, L., Ahmari, S.E., Zeng, H.,  
Fenton, A.A. & Hen R. (2013) Differential Control of Learning and Anxiety Along the Dorso-  
Ventral Axis of the Dentate Gyrus. Neuron, 77(5):955-68.

Ravinder, S., **Burghardt, N.S. \***, Brodsky, R., Bauer, E., & Chattarji, S. (2013) A Role for the Extended  
Amygdala in the Fear Enhancing Effects of Acute Selective Serotonin Reuptake Inhibitor Treatment.  
Translational Psychiatry, 3:e209.

**\*(co-first author)**

**Burghardt, N.S.**, Sigurdsson, T., Gorman, J.M., McEwen, B.S. & LeDoux, J.E. (2012) Chronic  
Antidepressant Treatment Impairs the Acquisition of Fear Extinction. Biological Psychiatry,  
73(11):1078-86. *Recommended by Faculty of 1000*

**Burghardt, N.S.**, Park, E.H., Hen, R. & Fenton, A.A. (2012) Adult-born Hippocampal Neurons Promote  
Cognitive Flexibility in Mice. Hippocampus 22(9):1795-808.

Denny, C.A., **Burghardt, N.S.**, Schachter, D.M., Hen, R., & Drew, M.R. (2012) 4- to 6-Week-Old Adult-  
Born Hippocampal Neurons Influence Novelty-Evoked Exploration and Contextual Fear  
Conditioning. Hippocampus 22(5): 1188-201.

Moreno, H., **Burghardt, N.S.\***, Vela-Duarte, D., Masciotti, J., Hua, F., Fenton, A.A., Schwaller, B., &  
Small, S. (2012) The Absence of the Calcium-Buffering Protein Calbindin is Associated with Faster  
Age-Related Decline in Hippocampal Metabolism. Hippocampus 22(5): 1107-20.

**\*(co-first author)**

Sahay, A., Scobie, K.N., Hill, A.S., O'Carroll, C.M., Kheirbek, M.A., **Burghardt, N.S.**, Fenton, A.A., Dranovsky A. & Hen, R. (2011) Impact of Increasing Adult Hippocampal Neurogenesis on Cognition and Mood. Nature 472 (7344): 466-70.

**Burghardt, N. S.**, Bush, D.E.A., McEwen, B.S. & LeDoux, J.E. (2007) Acute Selective Serotonin Reuptake Inhibitors Increase Conditioned Fear Expression: Blockade with a 5-HT<sub>2C</sub> Receptor Antagonist. Biological Psychiatry 62(10):1111-8.

**Burghardt, N.S.**, Sullivan, G.M., McEwen, B.S., Gorman, J.M. & LeDoux, J.E. (2004) The Selective Serotonin Reuptake Inhibitor Citalopram Increases Fear After Acute Treatment But Reduces Fear with Chronic Treatment: A Comparison with Tianeptine. Biological Psychiatry 55(12):1171-8.

### **Manuscripts in Preparation**

**Burghardt, N.S.**, Garcia, A., Leonardo, D.E. & Hen, R. 5-HT<sub>1A</sub> Heteroreceptors Determine Vulnerability to Activity-Based Anorexia.

Denny, C.A., Fenton, A.A., Hen, R. & **Burghardt, N.S.**, Visualizing and Manipulating Circuits Underlying Cognitive Flexibility.

Park, E.H., **Burghardt, N.S.**, Dvorak, D., Hen, R. & Fenton, A.A. Experience-Dependent Effects of Adult-Generated Neurons on Granule Cells Activity in the Dentate Gyrus.

**Burghardt, N.S.**, Abdel Baki, S.G., Hen, R., Fenton, A.A. & Bergold, P.J. Mild Traumatic Brain Injury Reduces Integration of Adult-Born Neurons.