

# Wayne E. Pratt

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Date of Birth: October 2, 1972

Place of Birth: Rutland, Vermont

## Work Address:

Wake Forest University

Department of Psychology

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## **CURRENT POSITION**

Aug 2006-      Assistant Professor of Psychology  
Wake Forest University

## **EDUCATION**

2002-2006      Postdoctoral Fellow  
University of Wisconsin-Madison Medical School  
Department of Psychiatry  
Mentor: Ann E. Kelley

1997-2002      Doctor of Philosophy in Psychology  
University of Utah  
Psychology Department: Cognition and Neural Sciences Subdivision  
Mentor: Sheri J. Y. Mizumori  
Degree conferred August 2002

1994-1997      Masters of Science in Psychology  
University of Utah  
Psychology Department: Cognition and Neural Sciences Subdivision  
Mentor: Sheri J. Y. Mizumori  
Degree conferred August 1997

1990-1994      Bachelor of Arts in Psychology; Minor in Statistics  
University of Vermont  
Psychology Department  
Degree conferred March 1994

## AWARDS AND HONORS

- March 2008 Co-recipient of a Wake Forest University Cross-Campus Collaborative Research Fund Grant entitled: "Assessing the involvement of striatal and hypothalamic CB<sub>1</sub> receptors on food intake and gene expression within the rat".
- January 2008 Recipient of a Wake Forest University Social, Behavioral, & Economic Science Research Fund Grant entitled "Assessing the role of nucleus accumbens shell serotonin 2c, 6, and 7 receptors in hunger- and palatability- induced food intake and motivation of the rat".
- July 2007 Recipient of Wake Forest University Creative and Research Activities Development and Enrichment Initiative (CRADLE) Fellowship
- August 2004 Recipient of Ruth L. Kirchstein National Research Service Award (NIMH) Postdoctoral Fellowship MH068981.
- May 2000 Earl and Elies Skidmore Scholarship
- Dec 1998- Feb 2002 Recipient of Individual National Research Service Award (NIH) Predoctoral Fellowship MH12303.
- May 1999 Commendation for Service, Cognitive and Neural Science area, U of Utah Psych. Dept. Commendation for Research, Cognitive and Neural Science area, U of Utah Psych. Dept.

## ARTICLES AND BOOK CHAPTERS (*italics* denote undergraduate student authors; *italicized & underlined* denote WFU graduate student authors)

- Pratt, W. E., Blackstone, K., Connolly, M., & Skelly, M. J.** (2009). Selective serotonin receptor stimulation of the medial nucleus accumbens causes differential effects on food intake and locomotion. *Behavioral Neuroscience*, *123*(5), 1046-57.
- Baldo, B.A., **Pratt, W. E.**, & Kelley, A. E.<sup>†</sup> (2009). Control of Fat Intake by Striatal Opioids. In J.-P. Montmayeur & J. Le-Coutre (Eds.), *Fat Detection: Taste, Texture, and Post-Ingestive Effects; Frontiers in Neuroscience Series*. Boca Raton, FL: CRC Press. († in memoriam)
- Pratt, W. E., & Blackstone, K.** (2009). Nucleus accumbens acetylcholine and food intake: Decreased muscarinic tone reduces feeding but not food-seeking. *Behavioural Brain Research*, *198*(1), 252-257.
- Pratt, W. E., Spencer, R.C., & Kelley, A. E.** (2007). Muscarinic receptor antagonism of the nucleus accumbens core causes avoidance to flavor and spatial cues. *Behavioral Neuroscience*, *121*(6), 1215-23.
- Will, M. J.\*, **Pratt, W. E.\***, & Kelley, A. E. (2006). Pharmacological characterization of high fat feeding induced by opioid stimulation of the ventral striatum. *Physiology and Behavior*, *89*(2), 226-34. (\*denotes equivalent contributions)
- Pratt, W. E., & Kelley, A. E.** (2005). Striatal muscarinic receptor antagonism reduces 24 hour food intake in association with decreased preproenkephalin gene expression. *European Journal of Neuroscience*, *22*(12), 3229-3240.
- Kelley, A. E., Baldo, B. A., **Pratt, W. E.**, & Will, M. J. (2005) Corticostriatal-hypothalamic circuitry and food motivation: integration of energy, reward, and action. *Physiology and Behavior*, *86*(5), 773-795.

- Kelley, A. E., Baldo, B. A., & **Pratt, W. E.** (2005). A proposed hypothalamic-thalamic-striatal axis for the integration of energy balance, arousal and food reward. Journal of Comparative Neurology, 493(1), 72-85.
- Pratt, W. E.**, & Kelley, A. E. (2004). Nucleus accumbens acetylcholine regulates appetitive learning and motivation for food via activation of muscarinic receptors. Behavioral Neuroscience, 118(4), 730-739.
- Kelley, A. E., Andrzejewski, M. E., Baldwin, A. E., Hernandez, P. J., & **Pratt, W. E.** (2003). Glutamate-mediated plasticity in corticostriatal networks: Role in adaptive motor learning. Annals of the New York Academy of the Sciences, 1003, 159-168.
- Mizumori, S. J. Y., **Pratt W. E.**, Cooper, B. G., & Guazzelli, A. (2002). The behavioral implementation of hippocampal processing. In P. E. Sharp (Ed), The Neural Basis of Navigation : Evidence from single cell recording. Kluwer Publishing.
- Pratt, W. E.**, & Mizumori, S. J. Y. (2001). Neurons in Rat Medial Prefrontal Cortex Show Anticipatory Rate Changes to Predictable Differential Rewards in a Spatial Memory Task. Behavioural Brain Research, 123, 165-183.
- Mizumori, S. J. Y, Cooper, B. G., Leutgeb, S., & **Pratt, W. E.** (2000). A neural systems analysis of adaptive navigation. Molecular Neurobiology, 21, 57-82.
- Mizumori, S. J. Y., **Pratt, W. E.**, & Ragozzino, K. E. (1999). Function of the nucleus accumbens within the context of the larger striatal system. Psychobiology, 27(2), 214-224.
- Pratt, W. E.**, & Mizumori, S. J. Y. (1998). Characteristics of basolateral amygdala neuronal firing on a spatial memory task involving differential reward. Behavioral Neuroscience, 112(3), 554-570.

#### **OTHER SCHOLARLY PUBLICATIONS**

- Pratt, W. E.** (in press). Wilcoxon Rank Sum Test. In N.J. Slakind (Ed.), *Encyclopedia of research design*. Thousand Oaks, CA: Sage

#### **CONFERENCE PRESENTATIONS**

- Pratt, W. E.**, *Connolly, M. E.*, *Skelly, M.J.*, & *Glenn E. A.* (2009). Serotonin receptors of the nucleus accumbens shell differentially affect palatability-induced feeding in the rat. Society for Neuroscience Abstracts. Note: Also presented at Elsevier's Neural Mechanisms of Ingestive Behavior and Obesity conference.
- Skelly, M. J.* & **Pratt, W. E.** (2009). An examination of whether cannabinoids and opioids interact in the rat nucleus accumbens shell to influence feeding on a palatable diet. Society for Neuroscience Abstracts
- Pratt, W. E.**, *Connolly M. E.*, & *Skelly, M. J.* (2009). Serotonin receptors of the nucleus accumbens shell differentially affect feeding in the rat. 2009 Winter Conference on Brain Research
- Pratt, W. E.** & *Blackstone, K.* (2008). Nucleus accumbens acetylcholine and food intake: Examining the role of the M2 receptor. Society for Neuroscience Abstracts.
- Blackstone, K.*, *Skelly, M.J.*, *Connolly, M. E.*, & **Pratt, W. E.** (2008). Selective serotonin receptor stimulation of the nucleus accumbens shell modulates hunger-driven food intake in the rat. Society for Neuroscience Abstracts.
- 2008 Winter Conference on Brain Research, Snowbird, UT. Coordinator of panel entitled: *Of Pain and Chocolate: Exploring the Opioid-Feeding Link Across the Neural Axis*

2007 Winter Conference on Brain Research, Snowmass, CO. Coordinator and speaker for panel entitled “A vocal minority: Interpreting the function of striatal cholinergic interneurons”

**Pratt, W. E.,** Spencer, R. C., & Kelley, A. E. (2006) Nucleus accumbens muscarinic receptor antagonism causes an associable negative motivational state. Society for Neuroscience Abstracts.

Invited panel speaker for the 2006 Winter Conference on Brain Research, Steamboat Springs, CO.  
Panel entitled “Non-homeostatic control of ingestion: Eating without regard to the body’s needs”

**Pratt, W. E. & Kelley, A. E.** (2005). Striatal muscarinic receptor blockade reduces 24-hr food intake and striatal preproenkephalin expression. Society for Neuroscience Abstracts.

**Pratt, W. E. & Kelley, A. E.** (2005). Twenty-four hour food intake is reduced following muscarinic receptor antagonism of the nucleus accumbens or anterior dorsal striatum. Society for the Study of Ingestive Behavior

**Pratt, W. E., & Kelley, A. E.** (2004). Short and long term food intake is reduced following muscarinic receptor antagonism of the nucleus accumbens. Society for Neuroscience Abstracts.

“A role for nucleus accumbens muscarinic acetylcholine receptors in mediating appetitive learning and motivation”. Datablitz presentation given by W. E. Pratt at the 2004 Winter Conference on the Neurobiology of Learning and Memory, Park City, UT.

**Pratt, W. E., & Kelley, A. E.** (2003). Effects of muscarinic and nicotinic receptor blockade of the nucleus accumbens on operant learning, locomotion, and sucrose consumption. Society for Neuroscience Abstracts.

**Pratt, W. E., & Mizumori, S. J. Y.** (2002). Effects of medial prefrontal cortex or ventral subiculum inactivation on medial ventral striatum neural firing during a spatial working memory task. Society for Neuroscience Abstracts.

**Pratt, W. E., & Mizumori, S. J. Y.** (2001). Individual neurons of medial ventral striatum reflect spatial memory task demands and reward. Society for Neuroscience Abstracts.

**Pratt, W. E., & Mizumori, S. J. Y.** (1999). Effects of environmental manipulations on place, reward, movement, and task phase specific coding within the ventral striatum. Society for Neuroscience Abstracts.

**Pratt, W. E., & Mizumori, S. J. Y** (1998). Medial prefrontal neuronal responses in rats performing a spatial maze task involving differential reward. Society for Neuroscience Abstracts, 24.

**Pratt, W. E., & Mizumori, S. J. Y** (1995). Basolateral amygdaloid neuron responses in rats performing a spatial maze task. Society for Neuroscience Abstracts, 21, 1929.

## MEMBERSHIPS

1995- present     Society for Neuroscience  
2005- present     Society for the Study of Ingestive Behavior



## LOCAL, REGIONAL, AND NATIONAL STUDENT CONFERENCE PRESENTATIONS

Choi, E. & **Pratt, W. E.** (2009). *Examining the effects of pharmacological manipulations of the subthalamic nucleus on food intake in the rat.* Presented at the Fall 2009 Undergraduate Research Symposium, Reynolda Campus.

Connolly, M. E., & **Pratt, W. E.** (2009). *The effects of sibutramine in the nucleus accumbens, hypothalamus, or prefrontal cortex on feeding behavior in the rat.* Fourth Annual ACC Meeting of the Minds (Advancing Undergraduate Research Excellence), April 2-4, 2009.

Maslan Y.,\*, Howlett, A. C., **Pratt, W. E.**, Bass, C., & Polite C.B. (2008). *Manipulating The "Munchies": Cannabinoid Receptors and the Neurophysiology of Feeding.* The 24<sup>th</sup> Annual Medical Student Research Day; Wednesday, October 15, 2008; WFUBMC. (\*a WFUBMC medical student).

Connolly M. E., & **Pratt, W. E.** (2008). *Serotonin receptors in the nucleus accumbens differentially affect feeding in the rat.* Presented at the Fall 2008 Undergraduate Research Symposium, Reynolda Campus.

Polite, C. B., Skelly, M. J., Howlett, A. C., and Pratt, W. E. (2008). *CB1 receptors in the nucleus accumbens: Effects of agonists and antagonists on palatable food intake in non-food restricted rats.* Presented by Constance B. Polite at:

A research symposium at WFUBMC for the Summer Research Opportunity Program 2008

At NIDDK's research symposium for STEP-UP students ( a program meant to foster minority participation in research) 2008

At the Annual Biomedical Research Conference for Minority Students; Orlando Florida; November 5-8<sup>th</sup>, 2008

Blackstone, K. & **Pratt, W. E.** (2007). *Nucleus accumbens acetylcholine and food intake: Examining the role of the M2 autoreceptor.* Presented at the Fall 2007 Undergraduate Research Symposium, Reynolda Campus