

CURRICULUM VITAE

Stefany DePrato Primeaux, PhD

Louisiana State University Health Science Center
Department of Internal Medicine-Endocrinology
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Education:

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| 1994 | B.S., Psychology
Louisiana State University, Baton Rouge, LA |
| 1996 | M.A., Psychology
Southeastern Louisiana University, Hammond, LA
Thesis Topic: Effects of contextual cues on opiate withdrawal and morphine self-administration |
| 2000 | Ph.D., Biopsychology
University of Georgia, Athens, GA
Dissertation Topic: Behavioral effects of herpes virus mediated prepro-enkephalin and prepro-neuropeptide Y gene transfer in the olfactory bulbectomy model of depression |
| 2000-2003 | Post-Doctoral Fellow
Department of Pharmacology, Physiology, & Neuroscience,
University of South Carolina School of Medicine
(mentor Marlene A Wilson) |
| 2003-2005 | Post-Doctoral Fellow
Experimental Obesity Laboratory,
Pennington Biomedical Research Center, Baton Rouge, LA
(mentors David A. York and George A. Bray) |
| 2005-2007 | Post-Doctoral Fellow
Dietary Obesity Laboratory
Pennington Biomedical Research Center, Baton Rouge, LA
(mentor George A. Bray) |

Academic, Professional, and Research Appointments:

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|--------------|---|
| 2007-2010 | Instructor-Research
Dietary Obesity Laboratory
Pennington Biomedical Research Center
Baton Rouge, LA |
| 2010-present | Assistant Professor
Joint Program in Diabetes, Metabolism and Endocrinology |

Department of Internal Medicine
Section of Endocrinology, Diabetes and Metabolism
Louisiana State University Health Science Center
New Orleans, LA

2010-present Adjunct Assistant Professor
Joint Program in Diabetes, Metabolism and Endocrinology
Pennington Biomedical Research Center
Baton Rouge, LA

2010-present Adjunct Assistant Professor
Department of Physiology
Louisiana State University Health Science Center
New Orleans, LA

Membership in Professional Organizations:

2004-present Society for the Study of Ingestive Behaviors
2003-present The Obesity Society/North American Association for the
Study of Obesity
2005-present Nutrition Obesity Research Center
1996-2006 The Society for Neuroscience
2001-2002 South Carolina Chapter of the Society for Neuroscience
1999-2002 International Behavioral Neuroscience Society
1998-2000 Society for Experimental Biology & Medicine
1996-2000 Neuroscience Student Association
(University of Georgia)
Student President, 1997-1998
1995-1997 American Psychological Association
1996-1997 APA Division 6, Behavioral Neuroscience
& Comparative Psychology

Awards and Honors:

2008-2009 Pennington Biomedical Research Center Pilot and Feasibility Grant
2007-2008 Pennington Biomedical Research Center Pilot and Feasibility Grant
2004 Pennington Biomedical Research Center Pilot Project Grant
2003-2006 National Research Service Award NIH/NIAAA
2002 Postdoctoral Travel Fellowship
(New York Academy of Science conference)
2000 Herbert Zimmer Award (awarded by the Biopsychology Program,
University of Georgia in recognition of outstanding research
accomplishments and potential for a research career in psychology)
1999-2000 Research Assistantship
1999 Outstanding Teaching Assistant Award
1997-1999 Teaching Assistantship
1996-1997 Research Assistantship
1995-1996 Research Assistantship

Teaching Experience/Responsibilities:

Feb 2011 Lecturer (2 lectures/2hours/Spring Semester)
Endocrine Physiology (Feeding and Obesity)
Physiology Department, LSUHSC

Jan 2011 Lecturer (7 lectures/9 hours/Spring Semester)
Dental Physiology (Cell signaling, Neural transmission,
Sensory Physiology)
Physiology Department, LSUHSC, LSU Dental School

Jan 2011-April 2011 Lecturer (4 lectures/4 hours/Spring Semester)
Dental Hygiene Physiology (Neural transmission, Sensory
Physiology, Metabolism, Aging)
Physiology Department, LSUHSC, LSU Dental School

Jan 2002-May 2002 Graduate Course Coordinator (3 hours/week/Spring
Semester)
Research Design Seminar
Department of Pharmacology & Physiology, University of
South Carolina School of Medicine

Aug 2001-Jan 2003 Medical Student Study Group Leader
Physiology (Neural signaling)
Department of Pharmacology & Physiology, University of
South Carolina School of Medicine

Sept 1997-Jan 1999 Undergraduate Course Coordinator
Research Design in Psychology
Department of Psychology, University of Georgia

Teaching Awards:

1999 Outstanding Teaching Assistant Award, University of Georgia

Grants and Contracts:

Funded:

Primeaux, S.D. 9/30/2010-10/31/2012
Department of Defense
Destabilization of Hypothalamic Sleep/Wake Neuronal System in Experimental SCI
Role: Principal Investigator (Administrative)

Primeaux, S.D. 9/1/2008-6/30/2009
Pennington Biomedical Research Center
Pilot & Feasibility Grant
The role of CD36 receptors on the tongues of obesity-prone and obesity-resistant rats
Role: Principal Investigator

Holmes, G.M. 9/1/2008-6/30/2009
Pennington Biomedical Research Center

Pilot & Feasibility Grant

Altered neural control of nutritional state after experimental traumatic brain injury

Role: Co-Investigator

Primeaux, S.D.

11/01/2007-6/30/2008

Pennington Biomedical Research Center

Nutrition and the Brain Division Pilot & Feasibility Grant

Does fat sensing by the tongue alter the susceptibility to obesity?

Role: Principal Investigator

Primeaux, S.D.

7/1/2007-6/30/2008

Johnson & Johnson

Investigation of experimental compounds in an animal model of obesity

Role: Principal Investigator

Primeaux, S.D.

1/1/2004-6/30/2004

Pennington Biomedical Research Center

Experimental Obesity Division Pilot Project Grant

Obesity and Depression: Exploring Animal Models

Role: Principal Investigator

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Primeaux, S.D.

6/1/2003-5/31/2006

NIH (NIAAA)

Individual Differences in Anxiety: Role of Neuropeptide-Y

Role: Principal Investigator

Pending Funding:

Tang, Y-P.

12/1/2011-11/30/2016

NIH

Postnatal amygdala-hypothalamus programming and adult-onset obesity

Role: Co-Investigator

Not funded:

Primeaux, S.D.

4/1/2011-3/31/2012

Pennington Biomedical Research Center

Nutrition Obesity Research Center (P&F)

Role of hypothalamic QRFP in reproductive and feeding behaviors in female rodents

Role: Principal Investigator

Lazartigues, E.D.

7/01/2011-6/30/2016

NIH

PheNOME Center

Role: Co-Investigator, Director of Energy and Lipid Metabolism Core

Primeaux, S.D.

9/01/2009-8/31/2011

NIH NIAAA

Analysis of brain region-specific gene expression:

interaction between ethanol, diet, and the susceptibility to obesity

Role: Principal Investigator

NIH NIDDK Bray, G.A. 10/01/2009-9/30/2014
Dietary Obesity III
Role: Co-Investigator

Department of the Army Holmes, G.M. 7/01/2008-6/30/2011
Functional changes in the neural control
of nutritional state following traumatic brain injury
Role: Co-Investigator

Research Review Committee:

Research Grant Reviewer:

2010 Botanical Research Center Pilot Project Grant, Pennington Biomedical
 Research Center
2007 Netherlands Organisation for Scientific Research *Veni programme*
 (Innovational Research Incentive Scheme)

Papers Presented:

1. CD36 Receptor Expression on the Tongue is Differentially Affected by High Fat Diet in Obesity-prone and Obesity-resistant Rats. Society of the Study of Ingestive Behaviors Annual Meeting (2010).

Seminars and Invited Presentations:

1. High Fat Diets and the Link to Obesity. Department of Physiology, Louisiana State University Health Science Center at New Orleans (2009).
2. Does Fat Sensing by the Tongue Alter the Susceptibility to Obesity? Nutrition and the Brain Division, Pennington Biomedical Research Center (2007).
3. Anxiety and Ethanol: Role of Neuropeptide Y. Pennington Biomedical Research Center (2003).
4. Role of Neuropeptides in the Olfactory Bulbectomy Syndrome. Department of Pharmacology & Physiology, University of South Carolina School of Medicine (2000).

Editorial Posts and Activities:

Ad Hoc Reviewer:

American Journal of Physiology- Regulatory, Integrative and Comparative Physiology
Appetite
Behavioural Brain Research
BMC Complementary and Alternative Medicine
Clinical Medicine Insights: Therapeutics
European Journal of Pharmacology
International Journal of Obesity
Journal of Biomedicine and Biotechnology
Neuropharmacology
Neuropsychopharmacology

Neuroscience Letters
Peptides
Pharmacological Research
Pharmacology, Biochemistry & Behavior
Pharmacology, Physiology & Behavior
Physiology & Behavior
PLos One
Progress in Neuro-Psychopharmacology & Biological Psychiatry

Institutional Animal Care Committee Reviewer:

2010 Institute of Mental Health Research Animal Care Committee
University of Ottawa, Institute of Mental Health Research, Ottawa,
Ontario, Canada

Meeting Session Chair:

2010 Co-Chair "Regulation of Adipocyte Metabolism"
The Obesity Society Annual Meeting

University/Institutional Service:

2010-2011 Reviewed Faculty Candidates for Department of Internal Medicine-
Endocrinology Section and Department of Physiology

Community Service Activities:

2011 Chair of Nervous System Section for 2nd grade Human Body Day, St.
Thomas More School
2011 Volunteer for St. Thomas More Church Annual Fair

Journal Publications:

Refereed:

1. **Primeaux, S.D.** (2011). QRFP in Female Rats: Effects on High Fat Food Intake and Hypothalamic Prepro-QRFP Expression across the Estrous Cycle. *Peptides*, 32 (6), 1270-1275.
2. Thanos, P.K., Cho, J., Kim, R., Michaelides, M., **Primeaux, S.D.**, Bray, G.A., Wang, G.J., & Volkow, N.D. (2011) Bromocriptine increased operant responding for high fat food but decreased chow intake in both obesity-prone and obesity-resistant rats. *Behavioural Brain Research*, 217(1), 165-170.
3. King, B.M., **Primeaux, S.D.**, Zadeh, M.L., de Gruiter, J.E., Plant, J.D., Ferguson, A.V. & Bray, G.A. (2011). Olfactory bulbectomy impairs the feeding response to 2-deoxy-D-glucose in rats. *Brain Research*, 1367, 207-212.
4. Thanos, P.K., Kim, R., Cho, J., Michaelides, M., Anderson, B.J., Robinson, J.K., **Primeaux, S.D.**, Bray, G.A., Wang, G.J., & Volkow, N.D. (2010) Obesity resistant S5B rats showed greater cocaine conditioned place preference than the obesity prone OM rats. *Physiology & Behavior*, 101(5), 713-718.

5. **Primeaux, S. D.**, Barnes, M.J. Braymer, H.D. & Bray, G.A. (2010). Sensitivity to the satiating effects of Exendin 4 is decreased in obesity-prone Osborne-Mendel rats compared to obesity-resistant S5B/Pl rats. *International Journal of Obesity*, 34(9), 1427-1433.
6. **Primeaux, S.D.**, Blackmon, C., Barnes, M.J., Braymer, H.D. & Bray, G.A. (2008) Central administration of the RFamide peptides, QRFP-26 and QRFP-43, increases high fat food intake in rats. *Peptides*, 29(11), 1994-2000. [PMCID:PMC2610851](#)
7. Barnes, M.J., **Primeaux, S.D.** & Bray, G.A. (2008) Food deprivation increases the mRNA expression of micro-opioid receptors in the ventral medial hypothalamus and arcuate nucleus. *American Journal of Physiology-Regulatory, Integrative and Comparative Physiology*, 295(5), R1385-1390. [PMCID:PMC2584848](#)
8. **Primeaux, S.D.**, Tong, M. & Holmes, G.M. (2007) Effects of spinal cord injury on body weight and body composition in rats fed a standard chow diet. *American Journal of Physiology-Regulatory, Integrative and Comparative Physiology*, 293(3), 1102-1109.
9. **Primeaux, S.D.**, Barnes, M.J., & Bray, G.A. (2007). Olfactory bulbectomy increases food intake and hypothalamic neuropeptide Y in obesity-prone but not obesity-resistant rats. *Behavioural Brain Research*, 180(2), 190-6. [PMCID: PMC1978179](#)
10. **Primeaux, S.D.**, Wilson, S.P., McDonald, A.J. Mascagni, F., & Wilson, M.A. (2006). The role of delta opioid receptors in the anxiolytic actions of benzodiazepines. *Pharmacology, Biochemistry and Behavior*. [PMCID: PMC1892843](#)
11. Barnes, M.J., Holmes, G., **Primeaux, S.D.**, York, D.A. & Bray, G.A. (2006) Increased expression of mu opioid receptors in animals susceptible to diet-induced obesity. *Peptides*, 27(12), 3292-3298.
12. **Primeaux, S.D.**, Wilson, S.P., Bray, G.A., York, D.A. & Wilson, M.A. (2006). Overexpression of neuropeptide Y in the central nucleus of the amygdala decreases ethanol self-administration in "anxious" rats. *Alcoholism: Clinical and Experimental Research*, 30 (5), 791-801.
13. **Primeaux, S.D.**, York, D.A., & Bray, G.A. (2006). Neuropeptide Y administration into the amygdala alters high fat food intake. *Peptides* 27 (7), 1644-1651.
14. **Primeaux, S.D.**, Wilson, S.P. Cusick, M.C., York, D.A. & Wilson, M.A. (2005) Effects of altered amygdalar neuropeptide Y expression on anxiety-related behaviors. *Neuropsychopharmacology*, 9, 1589-1597.
15. Wilson, M.A., Burghardt, P.R., Ford, K.A., Wilkinson, M.B. & **Primeaux, S.D.** (2004). Anxiolytic effects of diazepam and ethanol in two behavioral models: Comparison of males and females. *Pharmacology, Biochemistry & Behavior*, 78, 445-458.
16. **Primeaux, S.D.**, Wilson, M.A., Wilson, S.P., Guth, A.N., Lelutiu, N.B., & Holmes, P.V. (2003) Herpes virus-mediated prepro-enkephalin gene transfer in the ventral striatum mimics behavioral changes produced by olfactory bulbectomy in rats, *Brain Research* 988(1-2), 43-55.
17. Wilson, M.A., Burghardt, P.R., Lugo Jr., J. N., **Primeaux, S.D.**, & Wilson, S.P. (2003). Effect of amygdalar opioids on the anxiolytic properties of ethanol. *New York Academy of Science*, 985, 472-476

18. Holmes, P.V., Masini, C.V., **Primeaux, S.D.** Garrett, J.L. Zellner, A., Stogner, K.S., Duncan, A.A. & Crystal, J.D. (2002). Intravenous self-administration of amphetamine is increased in a rat model of depression. *Synapse* 46(1), 4-10.
19. **Primeaux, S. D.** & Holmes, P. V. (2000). Olfactory bulbectomy increases met-enkephalin and neuropeptide-Y-like immunoreactivity in rat limbic structures. *Pharmacology, Biochemistry, & Behavior*, 67, 331-337.
20. **Primeaux, S.D.**, Holmes, P.V., Martin, R.J., Dean, R. G., & Edwards, G.L. (2000). Experimentally induced attenuation of neuropeptide-Y gene expression in transgenic mice increases mortality rate following seizures. *Neuroscience Letters*, 287 (1), 61-64.
21. **Primeaux, S. D.** & Holmes, P. V. (1999). Role of aversively-motivated behavior in the olfactory bulbectomy syndrome. *Physiology & Behavior*, 67 (1), 41-47.
22. Holmes, P.V., Davis, R.C., Masini, C.V., & **Primeaux, S.D.** (1998) Effects of olfactory bulbectomy on neuropeptide gene expression in the rat olfactory/limbic system. *Neuroscience*, 86 (2),587-596

Abstracts:

1. **Primeaux, S.D.**, Braymer, H.D. & Bray, G.A. (2010). Centrally administered QRFP-26 increases high fat intake in female rats. *Society for the Study of Ingestive Behaviors, Appetite*, 54, 670.
2. **Primeaux, S.D.**, Braymer, H.D. & Bray, G.A. (2010). CD36 receptor expression on the tongue is differentially affected by high fat diet in obesity-prone and obesity-resistant rats. *Society for the Study of Ingestive Behaviors, Appetite*, 54, 670.
3. **Primeaux, S.D.**, Braymer, H.D., & Bray, G.A. (2010). High fat diet differentially induces genes for fatty acid metabolism, immunity, olfaction and signal transduction in enterocytes from obesity-prone and obesity-resistant rats. *XI International Congress on Obesity. Obes Rev. 11 (Suppl1)*, 91.
4. Thanos, P.K., Cho, J., Kim, R., Michaelides, M., **Primeaux, S.**, Bray, G., Wang, G.J., & Volkow, N.D. (2009). In-vivo effects of bromocriptine on dopamine D2 receptor availability in the striatum in rats prone or resistant to diet-induced obesity. *Society for Neuroscience Abstracts*.
5. Barnes, M.J., **Primeaux, S.D.**, Braymer, H.D., & Bray, G.A. (2009). Peripheral leptin administration to ob/ob mice decreases the gene expression of hypothalamic mu opioid receptors. *Experimental Biology*.
6. **Primeaux, S.D.**, Blackmon, C., Barnes, M.J., Braymer, H.D., & Bray, G.A. (2008). Sensitivity to the satiating effects of Exendin 4 is decreased in obesity-prone rats compared to obesity-resistant rats. *The Obesity Society*.
7. Zadeh, M.L., De Gruiter, J.E., Plant, J.D., Ferguson, A.V., **Primeaux, S.D.**, Bray, G.A., & King, B.M. (2008) Anosmia impairs the feeding response to 2-deoxy-d-glucose in rats. *Society for the Study of Ingestive Behaviors*
8. Holmes, G.M., **Primeaux, S.D.**, & Tong, M. (2008) Effects of experimental spinal cord injury on food intake, body composition and gastrointestinal expression of CD36 mRNA in rats. *Society for the Study of Ingestive Behaviors*
9. **Primeaux, S.D.**, Blackmon, C., Michaelides, M., Thanos, P.K., Volkow, N.D., Bray, G.A. (2007). Dopamine D2 receptor binding in rats susceptible and resistant to diet-induced obesity. *Society for Neuroscience Abstracts*.

10. **Primeaux, S.D.**, Blackmon, C., Barnes, M. J., Braymer, H.D., & Bray, G.A. (2007). QRFP: A novel peptide involved in the regulation of food intake. *North American Association for the Study of Obesity*.
11. Barnes, M.J., **Primeaux, S.D.**, Blackmon, C. Wedgeworth, C. & Bray, G.A. (2007). The preference for a high fat diet in food deprived animals is attenuated by β -Funaltrexamine. *Society for the Study of Ingestive Behaviors, Appetite* 49 (1).
12. **Primeaux, S.D.**, Tong, M. & Holmes, G.M. (2007) Effects of chronic spinal cord injury on body weight and body composition in rats fed a standard chow diet. *J. Neurotrauma*, 24 (7), 1283.
13. **Primeaux, S.D.**, Bray, G.A., York, D.A. (2005). Olfactory Bulbectomy Increases Food Intake in Obese-Prone Osborne-Mendel Rats. *Society for Neuroscience Abstracts*.
14. **Primeaux, S.D.**, York D.A. (2004). Obesity and Depression: Exploring Animal Models. *North American Association for the Study of Obesity*.
15. **Primeaux, S.D.**, Bray, G.A., York, D.A. (2004). Neuropeptide Y administration in the amygdala alters high fat food intake. *Society for Neuroscience Abstracts*.
16. **Primeaux, S.D.**, Wilson, S.P., York, D.A., Bray, G.A., Wilson, M.A. (2003). Herpes virus mediated alterations in amygdalar neuropeptide-y alters ethanol self-administration in 'anxious' rats. *Society for Neuroscience Abstracts*.
17. Wilson, M.A., Roudsari, S., Wilkinson, M.B., Ford, K.A., **Primeaux, S.D.** & Burghardt, P. R. (2003). Male and female rats show differences in anxiety behaviors, but not the anxiolytic effects of ethanol. *Society for Neuroscience Abstracts*.
18. Burghardt, P.R., **Primeaux, S.D.**, Wilson, S.P., & Wilson, M.A. (2002). Regulation of the anxiolytic effects of amygdalar opioids. *Society for Neuroscience Abstracts*.
19. **Primeaux, S.D.**, Burghardt, P.R., Ford, K.A., Wilson, S.P. & Wilson, M.A. (2002). Herpes virus mediated alterations in amygdalar neuropeptide Y alter ethanol self-administration. *New York Academy of Sciences Conference*.
20. Burghardt, P.R., Lugo, Jr., J.N., **Primeaux, S.D.**, Wilson, S.P., & Wilson, M.A. (2002). Effects of amygdalar opioids on the anxiolytic properties of ethanol. *New York Academy of Sciences Conference*.
21. Lugo Jr, J.N., Heape, C.E., **Primeaux, S.D.**, Kelly, S.J., Mascagni, F., McDonald, A.J., Wilson, S.P., & Wilson, M.A. (2002). The effects of altered enkephalin expression in amygdala on ethanol self-administration. *New York Academy of Sciences Conference*.
22. Coleman JR, Ross KC, Picton A, Wilson MA, Wilson SP, **Primeaux S** (2002) GAD65 gene transfer using herpes virus alters severity of audiogenic seizures. *Experimental Neurology*, 175 (2), 440.
23. **Primeaux, S.D.**, Burghardt, P.R., Wilson, S.P., & Wilson, M.A. (2001). Effects of enkephalin overexpression in the amygdala on anxiolytic actions. *Society for Neuroscience Abstracts*.
24. Wilson, M.A., **Primeaux, S.D.**, Kelly, S.J., Ford, K., Smith, A.S., & S.P. Wilson (2001). The role of amygdalar enkephalin (ENK) and neuropeptide Y (NPY) in ethanol consumption: Studies using herpes virus-mediated gene transfer. *Society for Neuroscience Abstracts*.
25. **Primeaux, S. D.**, Holmes, P. V., Wilson, M. A., & Wilson, S. P. (2000). Behavioral effects of herpes virus mediated prepro-enkephalin gene transfer

- in the olfactory bulbectomy model of depression. *Society for Neuroscience Abstracts*.
26. Holmes, P. V. Garrett, J. L., Masini, C. V., **Primeaux, S. D.** & Duncan, A. A. (2000). Intravenous self-administration of amphetamine is increased in the olfactory bulbectomized rat model of depression. *Society for Neuroscience Abstracts*.
 27. **Primeaux, S.D.** & Holmes, P.V. (1999). Neurochemical effects of olfactory bulbectomies in the rat piriform cortex and olfactory tubercles. *Society for Neuroscience Abstracts*, 25, 1120.
 28. Holmes, P. V., Davis, R. C., Masini, C. M., & **Primeaux, S. D.** (1998). Olfactory bulbectomy increases prepro-enkephalin mRNA in the olfactory tubercles in rats. *Society for Neuroscience Abstracts*, 24, 202.
 29. **Primeaux, S.D.** & Holmes, P.V. (1997). Role of aversively-motivated behavior in the olfactory bulbectomy syndrome. *Society for Neuroscience Abstracts*, 23, 1321.
 30. Holmes, P.V., **Primeaux, S.D.**, Davis, R.C., & Masini, C.V. (1997). Effects of olfactory bulbectomy on neuropeptide gene expression in the rat limbic system. *Society for Neuroscience Abstracts*, 23, 119.