

F. Joseph McClernon, Ph.D.

December 2015

Professor with Tenure
 Department of Psychiatry and Behavioral Sciences
 Duke University Medical Center, Box 3527
 Durham, NC 27710

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Education

- Ph.D. Southern Illinois University, Carbondale, Illinois, August, 2001
 Department of Psychology, General Clinical Psychology Program
- Clinical Internship Medical University of South Carolina and V.A. Medical Center
 Consortium, Charleston, South Carolina, July, 2001
- M.A. Southern Illinois University, Carbondale, Illinois, August 1998
 Department of Psychology, General Clinical Psychology Program
- B.A. Rockhurst University, Kansas City, Missouri, May 1992
 Psychology with Honors

Work Experience

- Tenured Full Professor Department of Psychiatry and Behavioral Sciences
 Duke University Medical Center
 Durham, North Carolina
 December 2015 – Present
- Tenured Associate Professor Department of Psychiatry and Behavioral Sciences
 Duke University Medical Center
 Durham, North Carolina
 January 2013 – December 2015
- Associate Professor Tenure-Track Department of Psychiatry and Behavioral Sciences
 Duke University Medical Center
 September 2010 – January 2013
- Associate Professor Department of Psychiatry and Behavioral Sciences
 Duke University Medical Center
 December 2008 – September 2010
- Staff Psychologist Mental Illness Research, Education and Clinical Center (MIRECC)
 VA Medical Center
 Durham, North Carolina
 January 2010 – October 2012
- Assistant Professor Department of Psychiatry and Behavioral Sciences
 Duke University Medical Center
 April 2004 – December 2008
- Research Associate Department of Psychiatry and Behavioral Sciences
 Duke University Medical Center
 November 2002 – April 2004

Postdoctoral Fellow Nicotine Research Program
 Duke University & V.A. Medical Centers
 August 2001- October 2002

Psychology Intern Center for Drug and Alcohol Programs
 Medical University of South Carolina
 Charleston, South Carolina
 August 2000 - July 2001

Associate
 Psychologist Midwest Research Institute
 Biobehavioral Sciences Section
 Kansas City, Missouri
 August 1992 - July 1995

Other Positions

Director Addiction Division
 Department of Psychiatry and Behavioral Sciences
 2012 – Present

Member Duke Cancer Institute
 Cancer Prevention, Detection and Control
 2013 – Present

Founder, Director Duke Center for Addiction Science and Technology (CfAST)
 2002 – Present

Co-Founder/Director mHealth@Duke
 2012 – Present

Investigator Duke Institute for Brain Sciences (DIBS)
 2009 – Present

Core Faculty Duke-UNC Brain Imaging and Analysis Center (BIAC)
 2008 – Present

Faculty Affiliate Duke Center for Interdisciplinary Decision Science (D-CIDES)
 2006 – Present

Faculty Affiliate Duke University Center for Cognitive Neuroscience (CCN)
 2008 – Present

Adjunct Associate
 Professor Pennington Biomedical Research Center (PBRC)
 Louisiana State University System
 2012 – Present

External Funding**CURRENT***Effects of Nicotine Reduction on Smoking Behavior in ADHD Smokers*

Co-PIs: **McClernon**, Kollins
 NICHD; R01HD083404
 Period: 7/15/2015 – 6/30/2020

Strengthening Instrumental Extinction to Prevent Smoking Relapse

PI: **McClernon**
 NIDA; R21DA037753
 Period: 2/01/2016 – 1/31/2018

Environment Cue-Reactivity: Brain, Behavior and Clinical Outcomes in Tobacco Use

PI: **McClernon**
 NIDA; R01DA038442
 Period: 09/01/2014 – 05/31/2019

Evaluating New Nicotine Standards for Cigarettes

PI: Eric Donny, Ph.D. (Univ. of Pittsburgh)
 NIDA/FDA; U54DA031659
 Period: 06/01/13 – 8/31/16
 Role: Site PI

Behavioral and genetic mechanisms of smoking risk in individuals with ADHD

PI: Scott Kollins, Ph.D.
 NIDA; R01 DA033080
 Period: 09/15/12-07/31/17
 Role: Co-Investigator

Acute and Chronic Nicotine Modulation of Reinforcement Learning

PI: Merideth Addicott, Ph.D.
 NIDA; K01DA033347
 Period: 04/01/2013 – 03/31/2018
 Role: Primary Mentor

Neuroimaging of Nicotine Dependence, Depression and Emotion Regulation

PI: Brett Froeliger, Ph.D. (Medical Univ. of S. Carolina)
 NIDA; R01 DA033459
 Period: 09/15/2012 – 07/31/2017
 Role: Consultant

Neurocognitive Impact of Marijuana Use in Patients with HIV/AIDS

PI: Linda Skalski, M.A.
 NIDA; F31DA035131
 Period: 7/1/13 - 6/30/16
 Role: Co-Sponsor

COMPLETED IN LAST 2 YEARS (see below for earlier)*Center for Adaptive Treatment of Cigarette Addiction*

PI: Jed Rose, Ph.D.
 NIDA; P50 DA027840
 Period: 09/15/2010 – 06/30/2015

Role: Project Director, *Neuroimaging Studies*

Brain Substrates of Extinction-Based Treatment for Nicotine Dependence

PI: **McClernon**

NIDA; R01 DA025876

Period: 9/15/2008 – 9/14/2013 [NCE through 9/2014]

Neuropharmacology of Response Inhibition in Comorbid ADHD and Nicotine Dependence

PI: **McClernon**

NIDA; R01 DA024838

Period: 07/01/2009 - 02/28/2014 [NCE through 8/2104]

Development of a Smartphone-Based Virtual Sensor for Detecting Smoking Behavior

PI's: **McClernon** and Roy Choudhury

NIDA; R21 DA034471

Period: 07/01/12-06/30/14

Environments as Smoking Cues: Imaging Brain Substrates, Developing New Treatments

Supplement: *Resting State Functional Connectivity and Addiction at Duke (RAD) Repository*

PI: **McClernon**

NIDA; R21 DA033083, R21 DA033083-S1

Period: 07/15/12-06/30/14

Effects of Cognitive Bias Modification on Neural Response to Smoking-Related Cues

PI: Marcus Munafo, Ph.D. (University of Bristol)

Pfizer Inc.; Global Research Award for Nicotine Dependence

Period: 05/18/12-05/17/14

Role: Subcontract PI

Internal Grants

2014- **Novel Approaches to Reducing Tobacco-Related Harm among HIV-infected**
2015 **Smokers**

Duke Center for AIDS Research (CFAR) Small Innovative Grant Program

Role: PI

2013- **CHARM: Community Health and Resource Mapping**

2014 *Information Initiative at Duke (iiD) Incubator Research Awards*

PI: Machanavajjala

Role: Co-I

2014 **Neighborhood-2-Brain**

Bass Connections: Brain & Society Research Team Award

PIs: McClernon and Odgers

2013 **The Interaction between Abstinence and Self-appraisal among Nicotine Dependent Gamblers**

Duke Psychiatry Research Incentive & Development (PRIDe)

PI: Addicott

Role: Co-I/Advisor

2012 **NIDA T32 Planning and Development Colloquium**

Duke School of Medicine Interdisciplinary Colloquia Grant

Role: PI

2012 **mHealth@Duke Colloquium**
 2013 *Duke School of Medicine Interdisciplinary Colloquia Grant*
 Role: Co-PI

Awards and Honors

1998 Thesis of the Year, Department of Psychology, Southern Illinois University
 2001-2002 National Institute of Mental Health Postdoctoral Fellowship Award
 2002 Training Award, American Psychological Assoc. fMRI Advanced Training Institute
 2005, 2008 New Investigator Travel Award, Society for Research on Nicotine and Tobacco
 2005 Janet E. Rafferty Scientist-Practitioner Alumni Award, SIU-C
 2006 Young Investigator Travel Award, American College of Neuropsychopharmacology
 2009 Award for most frequently cited review published in *Psychopharmacology* in 2006
 2009 Jarvik-Russell Young Investigator Award, Soc. for Research on Nicotine & Tobacco
 2012 Fellow, American Psychological Association, Division 28
 2012 Eugene A. Hargrove, M.D. Research Award, North Carolina Psychiatric Association

Peer-Reviewed Publications

1. **McClernon**, F. J., Froeliger, B., Rose, J. E., Kozink, R. V., Addicott, M. A., Sweitzer, M. M., Westman, E. C., Van Wert, D. (in press). The effects of nicotine and non-nicotine smoking factors on working memory and associated brain function. *Addiction Biology*.
2. **McClernon** FJ, Conklin CA, Kozink RV, Adcock RA, Sweitzer MM, Addicott MA, Chou YH, Chen NK, Hallyburton MB, DeVito AM (in press). Hippocampal and Insular Response to Smoking-Related Environments: Neuroimaging Evidence for Drug-Context Effects in Nicotine Dependence. *Neuropsychopharmacology*.
3. Sweitzer MM, Geier CF, Denlinger R, Forbes EE, Raiff BR, Dallery J, **McClernon** FJ, Donny EC. (in press). Blunted striatal response to monetary reward anticipation during smoking abstinence predicts lapse during a contingency-managed quit attempt. *Psychopharmacology*.
4. Cortese BM, Uhde TW, Brady KT, **McClernon** FJ, Yang QX, Collins HR, LeMatty T, Hartwell KJ. (2015). The fMRI BOLD response to unisensory and multisensory smoking cues in nicotine-dependent adults. *Psychiatry Research*, 234, 321-327.
5. Cortese, B. M., Uhde, T. W., LaRowe, S. D., Stein, S. V., Freeman, W. C., **McClernon**, F. J., Brady, K. T., & Hartwell, K. J. (2015). Olfactory cue reactivity in nicotine-dependent adult smokers. *Psychology of Addictive Behavior*, 29, 91-96.
6. Donny EC, Denlinger RL, Tidey JW, Koopmeiners JS, Benowitz NL, Vandrey RG, al'Absi M, Carmella SG, Cinciripini PM, Dermody SS, Drobles DJ, Hecht SS, Jensen J, Lane T, Le CT, **McClernon** FJ, Montoya ID, Murphy SE, Robinson JD, Stitzer ML, Strasser AA, Tindle H, Hatsukami DK (2015). Randomized Trial of Reduced-Nicotine Standards for Cigarettes. *New England Journal of Medicine*, 373, 1340-9.
7. Addicott MA, Pearson JM, Kaiser N, Platt ML, **McClernon** FJ (2015). Suboptimal foraging behavior: a new perspective on gambling. *Behav Neurosci*. 129, 656-65.

8. Addicott MA, Sweitzer MM, Froeliger B, Rose JE, **McClernon** FJ (2015). Increased Functional Connectivity in an Insula-Based Network is Associated with Improved Smoking Cessation Outcomes. *Neuropsychopharmacology*, *40*, 2648-56.
9. Brody AL, **McClernon** FJ. Prediction of smoking cessation with treatment: the emerging contribution of brain imaging research. *Neuropsychopharmacology*, *40*, 1309-10.
10. Addicott, M. A., Pearson, J. M., Froeliger, B., Platt, M. L., & **McClernon**, F. J. (2014). Smoking automaticity and tolerance moderate brain activation during explore-exploit behavior. *Psychiatry Research: Neuroimaging*, *224*, 254-261.
11. Attwood, A. S., Williams, T., Adams, S., **McClernon**, F. J., & Munafo, M. R. (2014). Effects of varenicline and cognitive bias modification on neural response to smoking-related cues: study protocol for a randomized controlled study. *Trials*, *15*, 391.
12. Lee, C. T., Clark, T. T., Kollins, S. H., **McClernon**, F. J. & Fuemmeler, B. F. (2015). Attention Deficit Hyperactivity Disorder symptoms and smoking trajectories: Race and gender differences. *Drug and Alcohol Dependence*, *148*, 180-187.
13. Addicott, M. A., Froeliger, B. F., Kozink, R. V., Van Wert, D., Westman, E.C., Rose, J. E., **McClernon**, F. J. (2014). Nicotine and Non-Nicotine Smoking Factors Differentially modulate craving, withdrawal and cerebral blood flow as measured with arterial spin labeling, *Neuropsychopharmacology*, *39*, 2750-2759.
14. Clark, T. T., Yang, C., **McClernon**, F. J., & Fuemmeler, B. F. (2015). Racial differences in parenting style typologies and heavy episodic drinking trajectories. *Health Psychology*, *34*, 697-708.
15. Mitchell, J. T., Schick, R. S., Hallyburton, M., Dennis, M. F., Kollins, S. H., Beckham, J. C., & **McClernon**, F. J. (2014). Combined ecological momentary assessment and global positioning tracking to assess the spatial distribution of risk behavior: A proof of concept study targeting smoking behavior. *Journal of Dual Diagnosis*, *10*, 19-29.
16. Mitchell, J. T., McIntyre, E. M., **McClernon**, F. J., & Kollins, S. H. (2014). Smoking Motivation in adults with Attention-Deficit/Hyperactivity Disorder Using the Wisconsin Inventory of Smoking Dependence Motives. *Nicotine and Tobacco Research*, *16*, 120-125.
17. Damiano, C. R., Aloï, J., Dunlap, K., Burrus, C. J., Mosner, M.G., Kozink, R. V., McLaurin, R.E., Mullette-Gillman, O. A., Carter, R. M., Huettel, S. A., **McClernon**, F.J., Ashley-Koch, A., & Dichter, G. S. (2014). Association between the oxytocin receptor (OXTR) gene and mesolimbic responses to rewards. *Molecular Autism*, *5*, 7.
18. Bradstreet, M. P., Higgins, S. T., **McClernon**, F. J., Kozink, R. V., Skelly, J. M., Washio, Y., Lopez, A. A., & Parry, M. A. (2014). Examining the effects of initial smoking abstinence on response to smoking-related stimuli and response inhibition in a human laboratory model. *Psychopharmacology*, *10*, 2145-2158.
19. Ouyang, R. W., Srivastava, A., Prabahar, P., Roy Choudhury, R., Addicott, M., & **McClernon**, F. J. (September, 2013). If you see something, swipe towards it: Crowdsourced event localization using smartphones. *Proceedings of the 2013 ACM International Joint Conference on Pervasive and Ubiquitous computing*, 22-32.

20. **McClernon**, F. J., Calhoun, P. S., Hertzberg, J. S., Dedert, E. A., Beckham, J. C., & VA Mid-Atlantic Mental Illness Research, Education, and Clinical Center Registry Workgroup. (2013). Associations between smoking and psychiatric comorbidity in U.S. Iraq- and Afghanistan-era veterans. *Psychology of Addictive Behaviors*, *27*, 1182-1188.
21. Lee, C. T., **McClernon**, F. J., Kollins, S. H., Prybol, K., & Fuemmeler, B. F. (2013). Childhood economic strains in predicting substance use in emerging adulthood: mediation effects of youth self-control and parenting practices. *Journal of Pediatric Psychology*, *38*, 1130-1143.
22. Vrana, S.R., Calhoun, P.S., **McClernon**, F.J., Dennis, M. F., Lee, S. T., & Beckham, J. C. (2013). Effects of smoking on the acoustic startle response and prepulse inhibition in smokers with and without posttraumatic stress disorder. *Psychopharmacology (Berl)*, *230*, 477-485.
23. Lee, C. T., Fuemmeler, B. F., **McClernon**, F. J., Ashley-Koch, A., & Kollins, S. H. (2013). Nicotinic receptor gene variants interact with attention deficient hyperactive disorder symptoms to predict smoking trajectories from early adolescence to adulthood. *Addictive Behaviors*, *38*, 2683-2689.
24. Kollins, S. H., Schoenfelder, E., English, J. S., **McClernon**, F. J., Dew, R. E., Lane, S. D. (2013). Methylphenidate does not influence smoking-reinforced responding or attentional performance in adult smokers with and without attention deficit hyperactivity disorder (ADHD). *Experimental & Clinical Psychopharmacology*, *21*, 375-384.
25. Froeliger, B., Garland, E. L., & **McClernon**, F.J. (2012). Yoga meditation practitioners exhibit greater gray matter volume and fewer reported cognitive failures: results of a preliminary voxel-based morphometric analysis. *Evidence-Based Complimentary and Alternative Medicine*, 2012, ID 821307.
26. Fuemmeler B.F., Lee, C., Ranby, K.W., Clark, T., **McClernon**, J., Yang, C., Kollins, S. H., (2013). Individual- and community-level correlates of cigarette-smoking trajectories from age 13 to 32 in a U.S. population-based sample. *Drug and Alcohol Dependence*, *132*, 301-308.
27. Kollins, S.H., English, J.S., Itchon-Ramos, N., Chrisman, A.K., Dew, R.E., O'Brien, B., **McClernon**, F.J. (2014). A pilot study of lis-dexamphetamine dimesylate (LDX/SPD489) to facilitate smoking cessation in nicotine dependent adults with Attention Deficit Hyperactivity Disorder (ADHD). *Journal of Attention Disorders*, *18*, 158-168.
28. Froeliger, B., Garland, E. L., Modlin, L. A. & **McClernon**, F. J. (2013). Neurocognitive correlates of the effects of yoga meditation practice on emotion and cognition: A Pilot Study. *Frontiers in Integrative Neuroscience*, *6*, Article 48.
29. Froeliger, B., Garland, E., Kozink, R. V., Modlin, L., Chen, N., **McClernon**, F., Greeson, J., & Sobin, P. (2012). Meditation-state functional connectivity (msFC): Strengthening of the dorsal attention network and beyond. *Evidence Based Complementary and Alternative Medicine*, 2012: 680407.
30. Froeliger, B., Modlin, L.A., Kozink, R.V., Wang, L., Garland, E.L., Addicott, M.A., **McClernon**, F.J. (2013). Frontoparietal attentional network activation differs between smokers and nonsmokers during affective cognition. *Psychiatry Research: Neuroimaging*, *211*, 57-63.

31. **McClernon**, F. J. & Roy Choudhury, R. (2013). I am your smartphone and I know you are about to smoke: The application of mobile sensing and computing approaches to smoking research and treatment. *Nicotine and Tobacco Research*, *15*, 1651-1654.
32. Van Voorhees, E.E., Dennis, M.F., **McClernon**, F.J., Calhoun, P.S., Buse, N.A., & Beckham, J.C. (2013) The association of dehydroepiandrosterone and dehydroepiandrosterone sulfate with anxiety sensitivity and electronic diary negative affect among smokers with and without posttraumatic stress disorder. *J Clin Psychopharmacol*, *33*: 556-60.
33. Bough, K.J., Lerman, C., Rose, J. E., **McClernon**, F. J., Kenny, P. J., Tyndale, R. F., David, S. P., Stein, E. A., Uhl, G. R., Conti, D. V., Green, C., & Amur, S. (2013). Biomarkers for smoking cessation. *Clinical Pharmacology and Therapeutics*, *93*, 526-538.
34. Kollins, S. H., English, J. S., Roley, M. E., O'Brien, B., Blair, J., Lane, S. D., & **McClernon**, F. J. (2013). Effects of smoking abstinence on smoking-reinforced responding, withdrawal, and cognition in adults with and without attention deficit hyperactivity disorder. *Psychopharmacology*, *227*, 19-30.
35. Addicott, M.A., Pearson, J.M., Wilson, J., Platt, M.L., **McClernon**, F.J. (2013). Smoking and the bandit: A preliminary study of smoker and non-smoker differences in exploratory behavior measured with a multi-armed bandit task. *Experimental and Clinical Psychopharmacology*, *21*, 66-73.
36. Van Voorhees, E. E., Mitchell, J. T., **McClernon**, F. J., Beckham, J. C., Kollins, S. H. (2012). Sex, ADHD symptoms, and smoking outcomes: an integrative model. *Med Hypotheses*, *78*, 585-593.
37. Felder, J. N., Smoski, M. J., Kozink, R. V., Froeliger B., **McClernon**, F. J., Bizzell, J., Petty, C., Dichter, G. S. (2012). Neural mechanisms of subclinical depressive symptoms in women: a pilot functional brain imaging study. *BMC Psychiatry*, *12*, 152.
38. Froeliger, B., Modlin, L., Wang, L., Kozink, R. V., **McClernon**, F. J. (2012). Nicotine withdrawal modulates frontal brain function during an affective Stroop task. *Psychopharmacology*, *220*, 707-718.
39. Froeliger, B., Modlin, L.A., Kozink, R.V., Wang, L., **McClernon**, F.J. (2012). Smoking abstinence and depressive symptoms modulates the executive control system during emotional information processing. *Addiction Biology*, *17*, 668-679.
40. Dichter, G.S., Kozink, R.V., **McClernon**, F.J., Smoski, M.J. (2012). Remitted major depression is characterized by reward network hyperactivation during reward anticipation and hypoactivation during reward outcomes. *Journal of Affective Disorders*, *136*, 1126-1134.
41. Bidwell, L. C., Garrett, M. E., **McClernon**, F. J., Fuemmeler, B. F., Williams, R. B., Ashley-Koch, A. E., & Kollins, S. H. (2012). A preliminary analysis of interactions between genotype, retrospective ADHD symptoms, and initial reactions to smoking in a sample of young adults. *Nicotine and Tobacco Research*, *14*, 229-233.
42. Mitchell, J.T., Van Voorhees, E.E., Dennis, M.F., **McClernon**, F.J., Calhoun, P.S., Kollins, S.H., & Beckham, J.C. (2012). Assessing the role of ADHD symptoms in smokers with and without PTSD. *Nicotine and Tobacco Research*, *14*, 986-992.

43. Ranby, K. W., Boynton, M. H., Kollins, S. H., Yang, C., **McClernon**, F. J., & Fuemmeler, B. F. (2012). Understanding the phenotypic structure of adult retrospective ADHD symptoms during childhood in the United States. *Journal of Clinical Child and Adolescent Psychology*, *41*, 261-274.
44. Dedert, E. A., Calhoun, P. S., Harper, L. A., Dutton, C. E., **McClernon**, F. J., & Beckham, J. C. (2012). Smoking withdrawal in smokers with and without posttraumatic stress disorder. *Nicotine and Tobacco Research*, *14*, 372-376.
45. Larrauri, J. A., Rosenthal, M. Z., Levin, E. D., **McClernon**, F. J., & Schmajuk, N. A. (2012). Effects of unexpected changes in visual scenes on the human acoustic startle response and prepulse inhibition. *Behavioral Processes*, *89*, 1-7.
46. Addicott, M. A., Baranger, D. A. A., Kozink R. V., Smoski, M. J., Dichter, G. S., & **McClernon**, F. J. (2012). Smoking withdrawal is associated with increases in brain activation during decision making and reward anticipation: a preliminary study. *Psychopharmacology*, *219*, 563-573.
47. Rose, J. E., **McClernon**, F. J., Froeliger B., Behm, F. M., Preud'homme, X., & Krystal, A. D. (2011). Repetitive transcranial magnetic stimulation of the superior frontal gyrus modulates craving for cigarettes. *Biological Psychiatry*, *2011*, 794-799.
48. **McClernon**, F. J., Van Voorhees, E. E., English, J., Hallyburton, M., Holdaway, A., & Kollins, S. H. (2011). Smoking withdrawal symptoms are more severe among smokers with ADHD and independent of ADHD symptom change: Results from a 12-day contingency-managed abstinence trial. *Nicotine and Tobacco Research*, *13*, 784-792.
49. Bidwell, L.C., **McClernon**, F. J., & Kollins, S. H. (2011). Cognitive enhancers for the treatment of ADHD. *Pharmacology, Biochemistry and Behavior*, *99*, 262-274.
50. Calhoun, P., Wagner, H., **McClernon**, F., Lee, S., Dennis, M., Vrana, S., Clancy, C., Collie, C., Johnson, Y., Beckham, J. (2011). The effect of nicotine and trauma context on acoustic startle in smokers with and without posttraumatic stress disorder. *Psychopharmacology*, *215*, 379-389.
51. Fuemmeler, B. F., Ostbye, T., Yang, C., **McClernon** F. J., & Kollins, S. H. (2011). Association between attention-deficit/hyperactivity disorder (ADHD) symptoms and obesity and hypertension in early adulthood: A population-based study. *International Journal of Obesity*, *35*, 852-862.
52. Rose, J. E., Behm, F., Murugesan, T., **McClernon**, F. J. (2010). Silver acetate interactions with nicotine and non-nicotine smoke components. *Experimental and Clinical Psychopharmacology*, *18*, 462-469.
53. Kozink, R. V., Kollins, S. H., & **McClernon**, F. J. (2010). Smoking withdrawal modulates right inferior frontal cortex but not presupplementary motor area activation during inhibitory control. *Neuropsychopharmacology*, *35*, 2600-2606.
54. Kozink, R. V., Lutz, A. M., Rose, J. E., Froeliger, B., & **McClernon**, F. J. (2010). Smoking withdrawal shifts the spatiotemporal dynamics of neurocognition. *Addiction Biology*, *15*, 480-490.

55. Conklin, C. A., Perkins, K. A., Robin, N., & **McClernon**, F. J., & Salkeld, R. P. (2010). Bringing the real world into the laboratory: Personal smoking and nonsmoking environments. *Drug and Alcohol Dependence*, *111*, 58-63.
56. Kollins, S. H., **McClernon**, F. J., & Van Voorhees, E. E. (2010). Monetary incentives promote smoking abstinence in adults with attention deficit hyperactivity disorder (ADHD). *Experimental and Clinical Psychopharmacology*, *18*, 221-228.
57. Froeliger, B., Kozink, R. V., Rose, J. E., Behm, F. M., Salley, A. N., & **McClernon**, F. J. (2010). Hippocampal and striatal gray matter volume are associated with a smoking cessation treatment outcome: Results of an exploratory voxel-based morphometric analysis. *Psychopharmacology*, *210*, 577-583.
58. Froeliger, B., Gilbert, D. G., & **McClernon**, F. J. (2009). Effects of nicotine on novelty detection and memory recognition performance: Double-blind, placebo-controlled studies of smokers and nonsmokers. *Psychopharmacology (Berl)*, *205*, 625-633.
59. Kollins, S. H., Kail, M. E., **McClernon**, F. J., Cuccaro, M. L., Lachiewicz, A. M., Morrissey-Kane, E., FitzGerald, D., Collins, A. L., Anastopoulos, A. D., & Ashley-Koch, A. E. (2009). Effects of postnatal parental smoking on parent and teacher ratings of ADHD and oppositional symptoms. *Journal of Nervous and Mental Disease*, *197*, 442-449.
60. Fuemmeler, B. F., Dedert, E., **McClernon**, F. J., & Beckham, J. C. (2009). Adverse childhood events are associated with obesity and disordered eating: Results from a U.S. population-based survey of young adults. *Journal of Traumatic Stress*, *22*, 329-333. [PMC2748336](#)
61. **McClernon**, F. J. (2009). Neuroimaging of nicotine dependence: Key findings and application to the study of smoking-mental illness comorbidity. *Journal of Dual Diagnosis*, *5*, 168-178.
62. Willoughby, M. T., Kollins, S. H., & **McClernon**, F. J. (2009). Association between smoking and retrospectively reported ADHD symptoms in a population based sample of new mothers. *Nicotine and Tobacco Research*, *11*, 313-322. [PMC2666380](#)
63. Fuemmeler, B. F., Agurs-Collins, T., **McClernon**, F. J., Kollins, S. H., Kail, M., & Ashley-Koch, A. E. (2009). Interactions between genotype and depressive symptoms on obesity. *Behavioral Genetics*, *39*, 296-305. [PMC2884968](#)
64. **McClernon**, F. J., Kozink, R. V., Lutz, A. M., & Rose, J. E. (2009). 24-hr smoking abstinence potentiates fMRI-BOLD activation to smoking cues in cerebral cortex and dorsal striatum. *Psychopharmacology (Berl)*, *204*, 25-35. [PMC2810714](#)
65. Kollins, S. H., **McClernon**, F. J., & Epstein J. N. (2009). Effects of smoking abstinence on reaction time variability in smokers with and without ADHD: An Ex-Gaussian analysis. *Drug and Alcohol Dependence*, *100*, 169-172. [PMC2710488](#)
66. **McClernon**, F. J. & Kollins, S. H. (2008). ADHD and smoking: From genes to brain to behavior. *Annals of the New York Academy of Sciences*, *1141*, 131-147. [PMC2758663](#)
67. Beckham, J. C., Wiley, M. T., Miller, S., Dennis, M. F., Wilson, S. M., **McClernon**, F. J., & Calhoun, P. S. (2008). *Ad Lib* smoking in posttraumatic stress disorder: An electronic diary study. *Nicotine and Tobacco Research*, *10*, 1149-1157.

68. **McClernon**, F. J., Kozink, R. V., & Rose, J. E. (2008). Individual differences in nicotine dependence, withdrawal symptoms and sex predict transient fMRI-BOLD responses to smoking cues. *Neuropsychopharmacology*, *33*, 2148-2157.
69. Conklin, C. A., Robin, N., Perkins, K. A., Salkeld, R. P., & **McClernon**, F. J. (2008). Proximal versus distal cues to smoke: The effects of environments on smokers' cue-reactivity. *Experimental and Clinical Psychopharmacology*, *16*, 207-214. [PMC2963185](#)
70. **McClernon**, F. J., Kollins, S. H., Lutz, A. M., Fitzgerald, D. P., Murray, D. W., Redman, C., & Rose, J. E. (2008). Effects of smoking abstinence on adult smokers with and without attention deficit hyperactivity disorder: Results of a preliminary study. *Psychopharmacology*, *197*, 95-105.
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Book Chapters

- McClernon**, F. J., Addicott, M. A., & Sweitzer, M. M. (2015). Smoking Abstinence and Neurocognition: Implications for Cessation and Relapse. In: Munafo MR, Balfour D (eds). *The Neurobiology and Genetics of Nicotine and Tobacco*. Springer International Publishing Switzerland.
- Martin, C. K., **McClernon**, F. J., Chellino, A., & Correa, J. (2011). Food cravings: A central construct in food intake behavior, weight loss, and the neurobiology of appetitive behavior. In V. R. Preedy, R. R. Watson & C. Martin (Eds.), *Handbook of Behavior, Food, and Nutrition* (pp. 741-755). New York: Springer.
- McClernon**, F. J., & Gilbert, D. G. (2007). Smoking and stress. In *The encyclopedia of stress*. (3rd ed., vol. 3, pp. 512-520) San Diego: Academic Press.
- Gilbert, D. G., & **McClernon**, F. J. (2000). Smoking and stress. In *The encyclopedia of stress* (2nd ed., vol. 3, pp. 458-466). San Diego: Academic Press.

Gilbert, D. G., **McClernon**, F. J., & Gilbert, B. O. (1997). The psychology of the smoker. In C. T. Bollinger & K. O. Fagerström (Eds.), *Progress in respiratory research: Vol. 28. The tobacco epidemic*. Basel, Switzerland: Karger.

Commentaries

Gilbert, D. G., & **McClernon**, F. J. (2000). A smoke cloud of confusion [Comment]. *American Psychologist*, *55*, 1158-1159.

Invited Talks

March 2015, *Putting Tobacco Use Context in Context: From Brain to Clinic to Community*. Behavioral Pharmacology Research Unit Seminar Series, Johns Hopkins School of Medicine, Baltimore, MD.

March 2014, *Where is where we go from here: The role of the environment in nicotine dependence and its treatment*. Grand Rounds, Department of Psychiatry and Behavioral Sciences, Duke University School of Medicine, Durham, NC.

February 2014, *Putting drug use context in context: From neural mechanisms to novel interventions*. Nicotine and Tobacco Interest Group, National Institute on Drug Abuse, Bethesda, MD.

January 2014, *From context to cortex to conduct: Understanding the neural mechanisms that underlie environment * behavior interactions*. Invited presentation at the Duke Institute for Brain Sciences workshop "Determination and Determinism: Integrating Causative Networks to Resolve Addictive Dysfunction", Durham, NC.

April 2013, *I am your smartphone and I know you are about to smoke: Using mobile sensing technologies to improve mHealth interventions for smoking cessation*. Invited presentation at mHealth@Duke 2013, Durham, NC.

November 2012, *Putting drug use context in context: From neurobiology to novel interventions*. Invited presentation at the Duke Systems and Integrative Neuroscience (SINS) Brownbag Seminar Series, Durham, NC

March 2012, *Brain structure and function predictors of smoking cessation: Identifying potential biomarkers and novel mechanisms*. Paper presented at the Society for Research on Nicotine and Tobacco Pre-Conference Workshop: Biomarker Development for Nicotine Dependence, Houston, TX.

October 2011, *This is your brain off drugs: Toward a cognitive neuroscience of tobacco withdrawal*. Neuroscience Seminar at McClean Hospital/Harvard Medical School.

January 2011, *Quitting is just the beginning: Toward a neurocognitive account of tobacco withdrawal*. Seminar series at the Center for Interdisciplinary Research on Nicotine Addiction, University of Pennsylvania, Philadelphia, PA.

September 2010, *Breaking the smoking chain: Neural correlates of an extinction-based smoking cessation treatment*. Paper presented at the annual Duke Nicotine Research Conference, Durham, NC.

April 2009, *Why do smokers relapse?* New investigator award lecture at the Annual Meeting of the Society for Research on Nicotine and Tobacco, Dublin, Ireland.

January 2009, *ADHD, impulsivity and smoking: New insights from clinical trial and neuroimaging research.* Grand rounds, Department of Psychiatry, Medical University of South Carolina, Charleston, SC.

March 2008, *ADHD and smoking: From initiation to dependence to cessation.* Grand rounds, Department of Psychiatry, University of Vermont College of Medicine, Burlington, VT.

June 2008, *Neuroimaging of nicotine dependence: Key findings and application to the study of ADHD/smoking comorbidity.* Second National Conference on Dual Diagnosis, Indianapolis, IN.

October 2007, *To go or not to go?: Smoking, response inhibition and the brain.* Paper presented at the annual Duke Nicotine Research Conference, Durham, NC.

October 2006, *ADHD symptoms and smoking: From initiation to maintenance to cessation.* Paper presented at the annual Duke Nicotine Research Conference, Durham, NC.

October 2004, *The neurobiological basis of relations between drug craving and cue-reactivity: Findings from functional MRI studies.* Paper presented at the Duke Nicotine Research Conference, Chapel Hill, NC.

Selected Paper and Poster Presentations (Post 2005)

McClernon, F. J. (September 2015). *Putting tobacco use context in context: from brain to behavior to treatment.* Paper presented at the European meeting of the Society for Research on Nicotine and Tobacco, Maastricht, NL.

McClernon F. J., Sweitzer, M. M., Rose, J. E., Kozink, R. V., Hallyburton, M., Kaiser, N. & Addicott, M. A. (August 2015). *One-month use of very low nicotine content cigarettes and nicotine patch reduces amygdala reactivity to smoking cues.* Poster presented at the annual meeting of the British Association for Psychopharmacology, Bristol, UK.

McClernon, F. J. (February 2015). Discussant: *Characterizing Neural Responses to Nondrug Rewards in Smokers: Shedding Light on Relapse and Identifying Potential Avenues for Improving Treatment.* Symposium at the annual meeting of the Society for Research on Nicotine and Tobacco, Philadelphia, PA.

McClernon, F. J., Conklin, C., Kozink, R., Hallyburton, M. DeVito, A., Sweitzer, M. & Addicott, M. (February 2015). *That's Where I Smoke: Insula Reactivity Predicts Smoking Behavior in Response to Personal Smoking Environments.* Paper presented at the annual meeting of the Society for Research on Nicotine and Tobacco, Philadelphia, PA.

McClernon, F. J. (June 2014). *ADHD, smoking and stimulant medication: Preliminary results of a neuroimaging study of smokers with and without ADHD.* Paper presented at the annual meeting of the College on Problems of Drug Dependence, San Juan, Puerto Rico.

Addicott, M. A., Pearson, J. M., Froeliger, B., Platt, M. L., & **McClernon**, F. J. (February 2014). *Smoking automaticity moderates brain activation during explore-exploit behavior.* Paper

presented at the annual meeting of the Society for Research on Nicotine and Tobacco, Seattle, WA.

McClernon, F. J., Kozink, R., Hallyburton, M., Kaiser, N., Addicott, M., & Rose, J. E. (February 2014). *Very low nicotine content cigarettes with nicotine patch reduce post-quit brain reactivity to smoking cues*. Paper presented at the annual meeting of the Society for Research on Nicotine and Tobacco, Seattle, WA.

Sweitzer, M. M., Kozink R. V., Hallyburton, M. H., Kaiser, N., English, J., Addicott, M., Damiano, C. R., Dichter, G. S., Kollins, S. H., & **McClernon**, F. J. (February 2014). *Association between nicotine dependence severity and striatal response to reward among smokers with and without ADHD*. Poster presented at the annual meeting of the Society for Research on Nicotine and Tobacco, Seattle, WA.

McClernon, F. J., Song, A., Froeliger, B., Meade, C., Hallyburton, M. H., Petty, C., Gadde, S., & Kozink R. K. (February 2014). *The resting state functional connectivity and addiction database (RAD): a neuroimaging repository of studies of nicotine dependence and other addictions*. Poster presented at the annual meeting of the Society for Research on Nicotine and Tobacco, Seattle, WA.

McClernon, F. J., Conklin, C., Kozink, R. V., De Vito, A., & Hallyburton, M. H. (February 2014). *From pictures of the world to pictures of the brain: environments associated with smoking elicit craving and distinct patterns of brain activation*. Poster presented at the annual meeting of the Society for Research on Nicotine and Tobacco, Seattle, WA.

McClernon, F.J., Mitchell, J.T., Schick, R.S., Bayham, R.L., Dennis, M.E., Kollins, S.H. & Beckham, J.C. (2013, May). *Combined EMA and GPS for Assessing the Spatial Distribution of Smoking Behavior: A Proof of Concept Study*. Paper presented at the annual meeting of the Society for Behavioral Medicine, San Francisco, CA.

Lee, H.S., Catley, D., Harris, J.K., Goggin, K.J., Richter, K., Patten, C., Williams, K., Martin, L., **McClernon**, F. J. (2013, April). *Relationship between Changes in Implicit Attitudes toward Smoking and Smoking Cessation*. Paper presented at the annual meeting of the Society for Behavioral Medicine, San Francisco, CA.

Lee, H.S., Catley, D., Harris, J.K., Goggin, K.J., Richter, K., Patten, C., Williams, K., Martin, L., **McClernon**, F. J. (2013, April). *Changes in Implicit Attitudes Toward Smoking*. Poster presented at the annual meeting of the Society for Research on Nicotine and Tobacco, Boston, MA.

Mitchell, J.T., Schick, R.S., Bayham, R.L., Dennis, M.E., Kollins, S.H., Beckham, J.C., & **McClernon**, F. J. (2013, April). *The when and exactly where of smoking: A combined EMA/GPS proof of concept study*. Poster presented at the annual meeting of the Society for Research on Nicotine and Tobacco, Boston, MA.

Kumar, V., Kumar, J., **McClernon**, F. J., & Murugesan, T. (2013, April). A novel heated tobacco cigarette system: Results of preliminary chemical testing and analysis. Poster presented at the annual meeting of the Society for Research on Nicotine and Tobacco, Boston, MA.

Froeliger, B., **McClernon**, F. J. Gray, K. M., & Saladin, M. E. (2013, June). Gender differences in state-dependent affective brain function and motivations to smoke. Paper presented at the annual meeting of the College of Problems on Drug Dependence, San Diego, CA.

- Pergadia, M. L., **McClernon**, F. J., & Gilbert, D. G. (March, 2012). A controlled prospective examination of post-cessation weight gain in female smokers. Poster presented at the annual meeting of the Society for Research on Nicotine and Tobacco, Houston, TX.
- Hartwell, K.J., Cortese, B.M., Stein, S.V., Feeman, C., **McClernon**, F.J., Uhde, T.W., & Brady, K.T. (March, 2012). Odor cue-elicited craving in nicotine-dependent smokers. Poster presented at the annual meeting of the Society for Research on Nicotine and Tobacco, Houston, TX.
- Fuemmeler, B.F., Lee, C., **McClernon**, F.J. & Kollins, S.H. (June, 2012). *Variations of smoking trajectories from early adolescence into adulthood: The role of single nucleotide polymorphisms of nicotinic receptor and ADHD symptoms*. Poster presented at the annual meeting of Pref the College of Problems on Drug Dependence, Palm Springs, CA.
- Mitchell, J., Kollins, S. H., **McClernon**, F. J. (June 2012). *Smoking motivation in adults with and without attention-deficit/hyperactivity disorder*. Poster presented at the annual meeting of the College of Problems on Drug Dependence, Palm Springs, CA.
- Bradstreet, M. P., Higgins, S.T., **McClernon**, F.J., Kozink, R.V., Washio, Y., & Lopez, A.A., Perry, M. (June, 2012). Investigation of sensitivity to smoking-related stimuli as a function of initial abstinence duration. Poster presented at the annual meeting of the College of Problems on Drug Dependence, Palm Springs, CA.
- Fuemmeler, B.F., Ranby, K., Kollins, S.H., Yang, C., Boynton, M. H., Stroo, M., Clark, K., **McClernon**, F.J. (2011, August). *Correlates of smoking typologies in a U.S. population-based sample from adolescence to adulthood*. Poster at the annual meeting of the National Hispanic Science Network on Drug Abuse, Miami, FL.
- Mitchell, J. T., Van Voorhees, E.E., **McClernon**, F.J., Kollins, S.H. Calhoun, P.S., & Beckham, J.C. (2011, June). ADHD symptoms predict affective functioning in smokers with and without PTSD. Poster presented at the annual meeting of the College of Problems on Drug Dependence, Hollywood, FL.
- Kollins, S.H., **McClernon**, F.J., English, J.S., O'Brien, B. (2011, June). Smoking reinforcement is associated with inhibitory control performance in adult regular smokers. Poster presented at the annual meeting of the College of Problems on Drug Dependence, Hollywood, FL.
- McClernon**, F.J., Kozink, R., Hallyburton, M., McCormick, K., Addicott, M., Froeliger, B. (2011, June). Smoking stereotypy is associated with decreased caudate activation during behavioral control. Paper presented at the annual meeting of the College of Problems on Drug Dependence, Hollywood, FL.
- Addicott, M.A., Kozink, R., Harshbarger, T., Froeliger, B., Ban, D., Rose, J., & **McClernon**, F.J. (2011, June). The effects of nicotine and non-nicotine components of cigarette smoking on cerebral blood flow. Poster presented at the annual meeting of the College of Problems on Drug Dependence, Hollywood, FL.
- Kollins, S. H., **McClernon**, F. J., English, J. S., O'Brien, B., Roley, M. Hallyburton, M. (2011 February). *Smoking reinforcement in adults with and without ADHD*. Paper presented at the annual meeting of the Society for Research on Nicotine and Tobacco, February, 2011, Toronto, Canada.
- McClernon**, F. J., Kozink, R. V., Hallyburton, M., McCormick, K., Addicott, M., Froeliger, B. (2011 February). *Caudate activation during a behavioral control task is negatively correlated*

with smoking stereotypy. Paper presented at the annual meeting of the Society for Research on Nicotine and Tobacco, February, 2011, Toronto, Canada.

Froeliger, B., Modlin L., Kozink R. V., Wang, L. & **McClernon**, F. J. (2011). *Smoking abstinence modulates dACC function during affective cognition*. Poster presented at the annual meeting of the Society for Research on Nicotine and Tobacco, February, 2011, Toronto, Canada.

Addicott, M., Kozink, R., Harshbarger, T., Froeliger, B., Ban, D., Rose, J. E., & **McClernon**, F. J. (2011). *The separate and combined effects of nicotine and denicotinized cigarette smoking on cerebral blood flow*. Poster presented at the annual meeting of the Society for Research on Nicotine and Tobacco, February, 2011, Toronto, Canada

Froeliger, B., Modlin, L.A., Kozink, R.V., Wang, L., **McClernon**, F.J. (2010, November). *Smoking abstinence results in dysregulated emotional information processing*. Poster presented at the Annual Meeting for The Society for Neuroscience, San Diego, CA.

Modlin, L.A., Kozink, R.V., **McClernon**, F.J., Froeliger, B. (2010, October). *Experienced yoga practitioners exhibit both increased frontal and decreased limbic activation during emotional information processing*. Poster presented at the 4th Annual Meeting of the Social & Affective Neuroscience Society, Chicago, IL.

English, J.S., Hallyburton, M., **McClernon**, F.J., Kollins, S.H. (June, 2010). Pretreatment with nicotine patch facilitates smoking reduction in adult smokers with Attention Deficit Hyperactivity Disorder. Poster presented at the meeting of the College of Problems of Drug Dependence, Scottsdale, AZ.

Szabo, S.T., Patkar, A., Mangum, B., Beyer, W.F., **McClernon**, J, Burnett, B.K., Gorelick, D.A., Lee, T.H: *Preclinical And Translational Development Of Novel Pharmacotherapeutic Strategies For Psychostimulant Abuse Treatment*. American Psychiatric Association, May, 2010, New Orleans.

Szabo, S.T., Bhatia, K., Oh, J, Wetsel, Wc, **McClernon**, J, Patkar, A, Mangum, B, Beyer, W, Lee, Th: *Reversal of consolidated behavioral sensitization and associated neurochemical changes by local infusion of zeta (Z) inhibitory pseudosubstrate (Zip) peptide in nucleus accumbens core*. Society Of Biological Psychiatry, May, 2010, New Orleans.

Szabo, S.T., Patkar, A., Mangum, B., Beyer, W.F., **McClernon**, J, Burnett, B.K., Gorelick, D.A., Lee, T.H: *Preclinical and translational development of novel pharmacotherapeutic strategies for psychostimulant abuse treatment*. Society Of Biological Psychiatry, May, 2010, New Orleans.

Szabo, S.T., Patkar, A., Mangum, B., Beyer, W.F., **McClernon**, J, Burnett, B.K., Gorelick, D.A., Lee, T.H: *Preclinical and translational development of novel pharmacotherapeutic strategies for psychostimulant abuse treatment*. NCDEU Meeting, June, 2010, Boca Raton, FL.

McClernon, F. J., English, J., Hallyburton, M., Van Voorhees, E. E., Holdaway, A., & Kollins, S. H. (February, 2010). *Smoking withdrawal symptoms and craving severity are worse among smokers with ADHD*. Poster presented at the annual meeting of the Society for Research on Nicotine and Tobacco, Baltimore, MD.

Froeliger, B., Kozink, R. V., Rose, J. E., & **McClernon**, F. J. (February, 2010). *Hippocampal and striatal grey matter volume are associated with a smoking cessation treatment outcome:*

Results of an exploratory voxel-based morphometric analysis. Paper presented at the annual meeting of the Society for Research on Nicotine and Tobacco, Baltimore, MD.

Baranger, D. A. A., Kozink, R. V., Smoski, M. J. Dichter, G. S., & **McClernon**, F. J. (February, 2010). *Smoking withdrawal is associated with increases in brain activation during decision making and reward anticipation.* Poster presented at the annual meeting of the Society for Research on Nicotine and Tobacco, Baltimore, MD.

McClernon, F. J., Lutz, A., Kozink, R., Froeliger, B., Martin, C., Fuemmeler, B. F., & Westman, E. C. (October, 2009). *Does macronutrient content matter?: Results of a preliminary fMRI study of visual food cue reactivity.* Poster presented at the annual meeting of The Obesity Society, Washington, DC.

Froeliger, B., Kozink, R. V., Lutz, A.M., & McClernon, F. J. (2009, June). Sex differences in brain responses to smoking cues vary as a function of smoking satiety/abstinence. Poster presented at the meeting of the College of Problems of Drug Dependence, Reno, NV.

McClernon, F. J., Froeliger, B., Kozink, R.V., & Lutz, A.M. (2009, June). Smoking abstinence increases posterior insula–default network functional connectivity. Poster presented at the meeting of the College of Problems of Drug Dependence, Reno, NV.

Kollins, S.H., McClernon, F.J., Van Voorhees, E., English, J.S., Hallyburton, M., Holdaway, A. (2009, June). Contingency management for smoking cessation in adults with and without Attention Deficit Hyperactivity Disorder. Paper presented at the meeting of the College of Problems of Drug Dependence, Reno, NV.

Van Voorhees, E.E., Kollins, S., McClernon, F. J., Rose, J.E. (2009, June). Sex effects on nicotine withdrawal in smokers with and without ADHD. Paper presented at the meeting of the College of Problems of Drug Dependence, Reno, NV.

McDonald, S. D., Lee, S. T., **McClernon**, F. J., Dennis, M. F., Calhoun, P. S., Beckham J. C. (2008). *Cigarette smoking modulates mood and attention in posttraumatic stress disorder.* Paper presented at the annual meeting of The International Society for Traumatic Stress Studies, Chicago, IL.

McClernon, F. J. (2008). *Extinction-based smoking cessation treatment attenuates event-related brain responses to smoking cues: Results of a preliminary fMRI study.* Paper presented at the annual meeting of the College of Problems on Drug Dependence, San Juan, PR.

McClernon, F. J., Kozink, R. V., Lutz, A. M., & Rose, J. E. (2008). *Smoking abstinence results in decreased sustained but increased transient brain activity during a continuous working memory task.* Paper presented at the 2008 Annual Meeting of the Society for Research on Nicotine and Tobacco, Portland, OR.

Froeliger, B. E., Kozink, R. V., Lutz, A. M., & Rose, J. E., & **McClernon**, F. J. (2008). *Functional connectivity between insula and the default network is decreased by smoking abstinence.* Poster presented at the 2008 Annual Meeting of the Society for Research on Nicotine and Tobacco, Portland, OR.

McClernon, F. J., Kozink, R. V., Lutz, A. M., & Rose, J. E. (2008). *Smoking abstinence decreases occipital/parietal and increases frontal brain activity during response inhibition.* Poster presented at the 2008 Annual Meeting of the Society for Research on Nicotine and Tobacco, Portland, OR.

- McClernon, F. J., Kozink, R. V., Lutz, A. M., & Rose, J. E. (2008).** *A comparison of sustained and transient neural responses to visual smoking cues: results of a mixed event-related/block fMRI experiment.* Poster presented at the 2008 Annual Meeting of the Society for Research on Nicotine and Tobacco, Portland, OR.
- McClernon, F. J., Kozink, R. V., Lutz, A. M., & Rose, J. E. (2007).** *Smoking abstinence alters event-related fMRI BOLD activation during response inhibition.* Poster presented at the annual meeting of the Society for Neuroscience, San Diego, CA.
- McClernon, F. J. & Rose, J. E. (2007).** *Extinction-based smoking cessation treatment attenuates event-related brain responses to smoking cues: Results of a preliminary fMRI study.* Paper presented at the annual meeting of the American Psychological Association, San Francisco, CA.
- Fuemmeler, B. F., Roberts, M. E., **McClernon, F. J., & Beckham, J. C. (2007).** *Adverse childhood events are associated with obesity and disordered eating.* Poster presented at the annual meeting of the American Psychological Association, San Francisco, CA.
- McClernon, F. J., Kozink, R. V., & Rose, J. E. (2007).** *Nicotine dependence and craving predict brain responses to smoking cues.* Poster presented at the annual meeting of the American Psychological Association, San Francisco, CA.
- McClernon, F. J., Kozink, R. V., Lutz, A. M., & Rose, J. E. (2007).** *Effects of 24 hour smoking abstinence on sustained and event-related brain activity during continuous working memory: Preliminary results of an fMRI study.* Poster presented at the annual meeting of the Organization for Human Brain Mapping, Chicago, IL.
- McClernon, F. J. (2007).** *fMRI studies of craving and cue reactivity: Elucidating the role of bottom-up and top-down neural networks.* Paper presented at the 2007 Annual Meeting of the Society for Research on Nicotine and Tobacco, Austin, TX.
- McClernon, F. J., Kozink, R. V., Lutz, A. M., & Rose, J. E. (2006).** *Effects of 24 hour smoking abstinence on sustained and event-related brain activity during continuous working memory: Preliminary results of an fMRI study.* Poster presented at the annual meeting of the American College for Neuropsychopharmacology, Hollywood, FL.
- McClernon, F. J., Kozink, R. V., Lutz, A. M., & Rose, J. E. (2006).** *Effects of 24 hour smoking abstinence on sustained attention: Preliminary results of an fMRI study.* Paper presented at the annual meeting of the Society for Psychophysiological Research, Vancouver, BC.
- Kollins, S. H., **McClernon, F. J., & Fuemmeler, B. F. (2006).** *ADHD symptoms predict smoking outcomes in an epidemiological sample.* Paper presented at the annual meeting of the American Academy of Child and Adolescent Psychiatry, San Diego, CA.
- McClernon, F. J., Fuemmeler, B. F., Kollins, S. H., Kail, M. E., & Ashley-Koch, A. E. (2006).** *Interactions between genotype and retrospective ADHD symptoms predict lifetime smoking risk in a community-based sample of young adults.* Paper presented at the meeting of the College on Problems of Drug Dependence, Scottsdale, AZ.
- Fuemmeler, B. F., Agurs-Collins, T., Bergen, A., **McClernon, F. J., Kollins, S. H., Kail, M. E., & Ashley-Koch, A. E. (2006).** *Genes implicated in serotonergic and dopaminergic functioning interact with gender to predict BMI categories: Findings from a nationally representative*

sample of young adults. Paper presented at the Duke Comprehensive Cancer Center Annual Meeting, Durham, NC.

McClernon, F. J., Hiott, F. B., Westman, E. C., Rose, J. E., & Levin, E. D. (2006). *Transdermal nicotine attenuates depression symptoms in non-smokers: A preliminary placebo controlled trial*. Poster presented at the 2006 Annual Meeting of the Society for Research on Nicotine and Tobacco, Orlando, FL.

McClernon, F. J., Hiott, F. B., Liu, J., Salley, A. N., Behm, F. M., & Rose, J. E. (2006). *Extinction-based smoking cessation treatment attenuates event-related brain responses to smoking cues*. Poster presented at the 2006 Annual Meeting of the Society for Research on Nicotine and Tobacco, Orlando, FL.

Bush, C. A., Kollins, S. H., Fuemmeler, B. F., & **McClernon, F. J. (2006).** *Initial reactions to smoking predict risk for lifetime regular smoking in a population-based sample of young adults*. Poster presented at the 2006 Annual Meeting of the Society for Research on Nicotine and Tobacco, Orlando, FL.

Intellectual Property

U.S. Patent Application *Systems and Methods for Defining a Geographic Position of an
14/286614 Object or Event Based on a Geographic Position of a Computer
McClernon/Roy Choudhury Device and a User Gesture*

Professional Affiliations

Full Member	Society for Research on Nicotine and Tobacco
Full Member	American Psychological Association (APA)
Associate Member	College of Problems on Drug Dependence
Member	NIDA Neuroimaging Research Interest Group
Member/Fellow	APA Division 28: Psychopharmacology and Substance Abuse

Other Professional Activities

Journal Review

Associate Editor	<i>Nicotine and Tobacco Research</i>
Ad hoc reviewer	<i>Addictive Behaviors, Addiction, Archives of General Psychiatry, American Journal of Psychiatry, Biological Psychiatry, Drug and Alcohol Dependence, International Journal of Psychophysiology, International Journal of Neuropsychopharmacology, Neuroimage, Neuropsychopharmacology, Nicotine and Tobacco Research, Pharmacology, Biochemistry and Behavior, Progress in Neuro-Psychopharmacology & Biological Psychiatry, Psychopharmacology, Psychophysiology</i>

Grant Review

Oct 2010- Present	Regular Member, NIH Center for Scientific Review <i>Biobehavioral Regulation, Learning and Ethology (BRLE)</i> Co-Chair: February 2012 Meeting Chair: February 2013, June 2013 Section Chair: July 2014 - Present
June 2007 Feb 2008 June 2009 Oct 2009 Feb 2010	ad hoc reviewer, NIH Center for Scientific Review <i>Biobehavioral Regulation, Learning and Ethology (BRLE)</i>
March 2009	Member Conflicts: Schizophrenia, Cognitive Impairment and Intervention (ZRG1 BBBP-R)
Feb 2009	ad hoc reviewer, Dutch Health Promotion & Disease Prevention Program
Jan 2009	National Institute on Drug Abuse <i>Medication Development for Cannabis-Related Disorders (ZDA1 MXH-H)</i>
March 2007, March 2008	National Institutes of Mental Health <i>Translational Research in Integrative Behavioral Science (ZMH1 ERB-C)</i>
2005, 2007, 2010	National Institute on Drug Abuse (I/START) <i>Imaging - Science Track Award for Research Transition</i>
June 2006	ad hoc reviewer, National Institutes of Health <i>Adult Psychopathology and Disorders of Aging (APDA) SRG</i>
June 2006	ad hoc reviewer, National Institutes of Health <i>Biobehavioral and Behavioral Processes (BBBP) IRG</i>
May 2005	National Institute on Drug Abuse (RFA-DA-05-004) <i>Lapse or Relapse to Drug Abuse and Other Chronic Conditions</i>

Co-Organizer/Moderator

2009	<i>Advancing the Neuroscience of Addiction</i> Duke Institute for Brain Sciences Transcending the Boundaries Workshop
2013	<i>mHealth@Duke 2013</i> Colloquium and Annual Conference April 15 th , 2013
2014	<i>mHealth@Duke 2014</i> Colloquium and Annual Conference April 15 th , 2014

Thesis/Dissertation Committee

- November 2015 Interoceptive Contributions to Motivational and Affective Modulators of Memory Formation
Courtnea Rainey, Ph.D.
Department of Psychology and Neuroscience
Duke University
- August 2012 *Nicotine Enhances the Expression of a Conditioned Place Preference in Adult Male Rats*
Nan Marfo, B.A.
B. Phil in Psychology
University of Pittsburgh
- June 2012 *Dissociable Influence of Reward and Punishment Motivation on Declarative Memory Encoding and its Underlying Neurophysiology*
Deepu Murty, Ph.D.
Neurobiology
Duke University School of Medicine

Other Review

- 2015 Duke University School of Medicine Bridge Funding Program
2012 Reviewer, Women's Health Research at Yale Pilot Project Program
2009-2012 DVA Scientific Merit Review Board: Subcommittee for Eligibility
2010-2012 BIAC Scientific Review Committee
2002-2005 Judge, MUSC Psychology Intern Paper Competition
2003-2005 Poster Judge, North Carolina Psychology Conference
2001-present abstract reviewer, *Society for Research on Nicotine and Tobacco*
2007-2008 abstract reviewer, *Society for Psychophysiological Research*

Certification/Training

- Spring 2015 **Mentoring Training Program**
Duke University Medical Center
Selective, 10 hr program in mentoring skills development and training.
- Winter/Spring 2013 **Chancellor's Clinical Leadership in Academic Medicine Program**
Duke University Medical Center
Selective, six-month program providing education and training that strengthens the pipeline for Duke Medicine's next round of leaders, and supports the institution and its culture through engagement and innovation.
- June 2002 **APA fMRI Advanced Training Institute**
Massachusetts General Hospital
- 2003-present **Licensed Psychologist (#2887)**
North Carolina

Funding Ending > 2 years

Elucidating Links Between ADHD Symptoms and Tobacco/Alcohol Use Trajectories
PI: Bernard Fuemmeler, Ph.D., M.P.H.

NIDA; R01DA030487-01
Period: 9/15/2010 – 8/31/2013
Role: Co-Investigator

Neurobiology of Nicotine and Non-nicotine Components of Tobacco Addiction

PI: **McClernon**

NIDA; R01 DA023516
Period: 5/15/2008 – 3/31/2013

Personalized Self-Efficacy Virtual Environment Recovery Experience (PERSEVERE)

Site PI: M. Zachary Rosenthal, Ph.D.

NIDA/Intelligent Automation Inc.; SBIR/STTR

Period: 12/05/12-05/1/13

Role: Site Co-Investigator

Smoking Reinforcement in Adults with and without ADHD

PI: Scott Kollins, Ph.D.

NIDA; R01 DA025653
Period: 8/1/2009 – 2/29/12
Role: Co-Investigator

Novel Ondansetron Formulation for Combination Treatment of Psychostimulant Abuse

PI: Tong Lee, MD, Ph.D.

NIDA; RC2 DA028905
Period: 09/30/09-08/31/11

Role: Other Significant Contributor

Genetic Basis of Smoking Abstinence, Smoking Reinforcement and Inhibitory Control

PI: Scott Kollins, Ph.D.

NIDA; R03 DA027455
Period: 9/1/09 – 4/30/12
Role: Co-Investigator

Nicotine Patch Pretreatment for Smoking Cessation in PTSD

PI: Jean C. Beckham, Ph.D.

Department of Veterans Affairs
Period 4/1/2008 – 3/31/2012
Role: Consultant

Neuropharmacology of Emotion-Cognition Interaction in Nicotine Dependence

PI: Brett Froeliger, Ph.D.

NIDA; R03 DA026536
Role: Co-Investigator
Period: 8/1/09 – 7/31/11

Modeling Initial Smoking Abstinence and Relapse Risk

PI: Stephen T. Higgins, Ph.D. (University of Vermont)

NIDA; R01DA008076-15
Period: 2/28/09 – 2/28/2011
Role: Subcontract PI

Supplemental Nicotine Administration for Smoking Cessation in PTSD

PI: Patrick S. Calhoun, Ph.D.

NCI; R21 CA128965

Period: 5/8/09 – 4/30/11

Role: Co-Investigator

Smoking & Anxiety In Posttraumatic Stress Disorder

PI: Jean C. Beckham, Ph.D.

NCI; R01 CA081595

Period: 9/30/1998 – 2/28/2011

Role: Co-Investigator

Cue Reactivity During a Low-Carbohydrate, Ketogenic Diet: An fMRI Study

PI: Joseph McClernon, Ph.D.

Agency: The Dr. Robert C. and Veronica Atkins Foundation

Period: 11/2007 – 11/2010

Duke Center for Nicotine and Smoking Cessation Research

PI: Jed E. Rose, Ph.D.

Agency: Philip Morris USA (unrestricted grant)

Period: 6/1/2004 – 10/1/2010

Role: Co-Investigator on ADHD, rTMS and silver acetate pilot studies

The Effect of Smoking on Startle & PPI in PTSD

PI: Jean C. Beckham, Ph.D.

Agency: National Institute on Drug Abuse

Grant Number: R21 DA019704

Period: 4/1/2006 – 1/31/2009

Role: Co-Investigator

Mechanisms of Nicotine Dependence in ADHD Adults

PI: Scott Kollins, Ph.D.

Agency: National Institute on Drug Abuse

Grant number: R21 DA020806

Period: 4/1/2007 – 10/31/2009

Role: Co-Investigator

Effects of Nicotine on Depression Symptoms: A Double-Blind, Placebo-Controlled Trial

PI: Joseph McClernon, Ph.D.

Agency: National Alliance for Research on Schizophrenia and Depression

Type: Young Investigator Award

Period: 7/01/2003 – 6/30/2006

Summer Research with NIDA for Underrepresented Minorities

PI: Joseph McClernon, Ph.D.

Agency: National Institute on Drug Abuse

Type: Training Supplement (K23 DA017261-01S1, -03S1)

Period: 5/30/05 – 8/12/05; 5/30/06 – 8/12/06

Drug Cue Reactivity in Smokers: An fMRI Investigation

PI: Joseph McClernon, Ph.D.

Agency: National Institute on Drug Abuse

Type: I/START (R03 DA016212)

Period: 09/30/2002 – 09/29/2004