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SANTA BARBARA • SANTA CRUZ

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WESLEY D. FREY
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October 4, 2016

Document Control Desk
U.S. Nuclear Regulatory Commission
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**Subject: University of California Davis McClellan Nuclear Research Center (MNRC) License
Holder Interim Appointment**

Reference: Docket No. 50-607, Facility Operating License No. R-130

Dear Regulators,

In accordance with the UCD/MNRC Technical Specifications Section 6.7.2C(3), Effective October 1, 2016, Dr. Cameron S. Carter, M.D. will be the Interim Vice Chancellor for Office of Research (MNRC license holder) replacing the current Vice Chancellor Dr. Harris Lewin.

MNRC will submit an additional notification once a permanent selection for Vice Chancellor of Research has been finalized.

Please direct any questions to Dr. Wesley Frey, 916-614-6200 or wesfrey@ucdavis.edu.

Sincerely,

Wesley D. Frey PhD
Director, McClellan Nuclear Research Center

Cameron S. Carter, M.D.
Interim Vice Chancellor for Research

cc: Alexander Adams, U.S. NRC
Linh Tran, U.S. NRC

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NRR

CAMERON S. CARTER, M.D.

CURRICULUM VITAE

Home Address: Davis, CA 95618
Birth Place: Perth, Western Australia
Citizenship: U.S.A.
E-Mail: cscarter@ucdavis.edu

Business Address: Department of Psychiatry and Behavioral Sciences
University of California, Davis
2230 Stockton Boulevard
Sacramento, CA 95817

Business Phone: 916-734-7783
Business Fax: 916-734-8750

EDUCATION and TRAINING

UNDERGRADUATE

1973-1979 University of Western Australia School of Medicine, MBBS (MD, Medicine)
1975 National Health and Medical Research Council Fellow. Twelve months research in the Department of Anatomy and Human Biology, University of Western Australia Bachelor of Medical Science (honors). Functional Neuroanatomy
1972 Matriculated to University of Western Australia with Commonwealth Scholarship

POSTGRADUATE

1988-1989 Clinical Research Fellow in Psychiatry, U.C. Davis Medical Center, Sacramento, California
1985-1989 Psychiatry Resident University of California at Davis Medical Center and the Veterans Administration Medical Center at Martinez, California
1982 Resident Medical Officer, Flinders Medical Center, Adelaide, South Australia
1981-1982 Intern, Flinders Medical Center, Adelaide, South Australia

APPOINTMENTS and POSITIONS

ACADEMIC

2014-present Director, Behavioral Health Center of Excellence, University of California, Davis
2011-present Director, Center for Neuroscience, University of California, Davis
2009-2011 Interim Director, Center for Neuroscience, University of California at Davis
2006-2011 Chair, Graduate Group in Clinical and Translational Research, University of California, Davis
2006-present Director, Schizophrenia Research and Education Program, University of California, Davis
2006-present Administrative Chair in Schizophrenia Research, Department of Psychiatry & Behavioral Sciences, University of California, Davis
2004-present Director, EDAPT (Early Diagnosis and Preventive Treatment) Clinic, UC Davis Medical Center
2003-present Director, Imaging Research Center, University of California, Davis
2003-present Professor of Psychiatry and Psychology, University of California, Davis

2003-2010	Adjunct Professor of Psychiatry, University of Pittsburgh
2003	Associate Professor of Psychiatry, Psychology, Neuroscience and Radiology, University of Pittsburgh
2001-2003	Director, Cognitive and Affective Neuroimaging, UPMC MR Research Center, and Cognitive and Affective Neuroscience Program, Department of Psychiatry, University of Pittsburgh
1999-2003	Associate Professor of Psychiatry, Psychology and Neuroscience, University of Pittsburgh
1998-2003	Associate Professor of Psychiatry and Psychology, University of Pittsburgh
1998-2003	Co-Director Clinical Cognitive Neurosciences Laboratory, University of Pittsburgh
1997-2003	Associate Director, Clinical Services Core, Conte Center for Neuroscience and Mental Disorders, Department of Psychiatry, University of Pittsburgh. Director, Ambulatory Services, STEP (First Episode Psychosis) Clinic, WPIC
1995-1996	Associate Director, Office of Medical Student Education, Department of Psychiatry, University Pittsburgh, Western Psychiatric Institute and Clinic
1993-1999	Assistant Professor of Psychiatry, University of Pittsburgh, Western Psychiatric Institute and Clinic, Pittsburgh, PA Attending Psychiatrist, Schizophrenia Treatment and Research Center, Western Psychiatric Institute and Clinic, Pittsburgh, PA
1991-1993	Director, Medical Student Education, Department of Psychiatry, University of California at Davis
1989-1991	Assistant Director of Residency Training, Department of Psychiatry, University of California at Davis
1989-1993	Assistant Professor of Psychiatry, University of California, Davis

NON-ACADEMIC

1987-1989	Psychiatrist, Crisis Unit, Contra Costa County Division of Mental Health and Substance Abuse, Merrithew Memorial Hospital, Martinez, California
1984-1985	General Practice, Tacoma, Washington
1982-1984	General Practice, Elizabeth, South Australia

CERTIFICATION and LICENSURE

SPECIALTY CERTIFICATION

Certified in Psychiatry by the American Board of Psychiatry and Neurology, June 1992, ABPN# 35765

MEDICAL or OTHER PROFESSIONAL LICENSURE

California License A43389

MEMBERSHIPS in PROFESSIONAL and SCIENTIFIC SOCIETIES

American Psychiatric Association, 1989-present
Society for Biological Psychiatry, 1995-present
Society for Cognitive Neuroscience, 1993-present
Society for Neuroscience, 1999-present
Organization for Human Brain Mapping, 2001-present
American College of Neuropsychopharmacology, Member 2003-present, Fellow 2010-present

HONORS

Best Doctors in Sacramento, Sacramento Magazine 2013-Present
Thompson-Reuters Highly Cited Scholar (top 1% in Psychiatry and Psychology) 2014
Mental Health Board of Sacramento, "Mental Health Hero" 2014
Dean's Award for Excellence in Community Engagement, 2008
NARSAD Distinguished Investigator Award, 2007
Dean's Excellence in Mentoring Award, UC Davis School of Medicine, 2006
Elected to the American College of Neuropsychopharmacology, 2003
NARSAD Klerman Award for Outstanding Clinical Research Achievement, 2001
NIMH Independent Scientist Career Award (K02), 2001-2006
Burroughs Wellcome Fund Clinical Scientist Award in Translational Research, 2001-2006
Honorable Mention, Klerman Award for Outstanding Clinical Research by a NARSAD Young Investigator, 1998
NARSAD Young Investigator Award, 1997
NIMH Mentored Scientist Development Award for Clinicians (K08), 1996-2001
NARSAD Young Investigator Award, 1994
NIMH NCDEU Young Investigator Travel Award, 1993
Northern California Psychiatric Association Resident Recognition Award for Clinical Excellence in Psychiatry, 1989
Friendly Societies Prize for Medicine, 1973
Convocation Prize for Medicine, 1973

NATIONAL and INTERNATIONAL COMMITTEES

Member, Scientific Council-Brain and Behavior Foundation (NARSAD), 2005-Present
Deputy Editor, Biological Psychiatry, 2006-present
Founding Editor-in-Chief Biological Psychiatry: Cognitive Neuroscience and Neuroimaging 2015-present
Scientific Advisory Committee, Organization for Human Brain Mapping Annual Meeting, 2001-present
Editorial Board, Biological Psychiatry 2000-2006
Editorial Board Neuropsychopharmacology 2003-present
Editorial Board, Schizophrenia Bulletin 2005-2009
Editorial Board, Psychiatry Research: Neuroimaging 2005-present
Charter Member IRG IFCN 7 Learning and Memory LAM), 2002-2005
Ad Hoc Reviewer, VA Merit Program and National Science Foundation, 2000-present
Ad Hoc Member IRG BDCN6, 2001
Chair ZMH1-NRB-Q 06, SEP Translational Research Center Awards, 2003-2006
Charter Member, NPAS Study Section, 2008-2011
Member, ZMH1 ERB-S (03), Special Emphasis Panel, Conte Centers for Schizophrenia, National Institutes of Mental Health, 2004-2006
Organizer, New Advances Conference, MATRICS, NIMH, 2004
Member, Neuropharmacology Committee, MATRICS, NIMH, 2004

Advocacy Group Committee, American College of Neuropsychopharmacology, 2004-present, Chair 2010-2011
Member, Ad Hoc Committee, Board of Scientific Counselors, Director's Office, National Institutes of Mental
Health, 2005, 2006

PUBLICATIONS

Citations 47,532; H Factor 95; i10 –index 228

REFEREED ARTICLES

1. **Carter CS**, Bearden CE, Bullmore ET, Geschwind DH, Glahn DC, Gur RE, Meyer-Lindenberg A, Weinberger DR (2016). Enhancing the Informativeness and Replicability of Imaging Genomics Studies. *Biological Psychiatry*. (In Press).
2. Solomon M, McCauley JB, Iosif AM, **Carter CS**, Ragland JD (2016). Cognitive control and episodic memory in adolescents with autism spectrum disorders. *Neuropsychologia*. 2016 Aug;89:31-41. doi: 10.1016/j.neuropsychologia.2016.05.013. Epub 2016 May 13. PMID: 27184119
3. Carrión RE, Cornblatt BA, Burton CZ, Tso IF, Auther AM, Adelsheim S, Calkins R, **Carter CS**, Niendam T, Sale TG, Taylor SF, McFarlane WR (2016). Personalized Prediction of Psychosis: External Validation of the NAPLS-2 Psychosis Risk Calculator With the EDIPPP Project. *Am J Psychiatry*. 2016 Jul 1:appiajp201615121565. Epub ahead of print. PMID: 27363511
4. Barch DM, **Carter CS** (2016). Functional and Structural Brain Connectivity in Psychopathology. *Biological Psychiatry: Cognitive Neuroscience and Neuroimaging*. Volume 1, Issue 3, May 2016, Pages 196-198.
5. Poppe AB, Barch DM, **Carter CS**, Gold JM, Ragland JD, Silverstein SM, MacDonald AW 3rd (2016). Reduced Frontoparietal Activity in Schizophrenia Is Linked to a Specific Deficit in Goal Maintenance: A Multisite Functional Imaging Study. *Schizophrenia Bulletin*. 2016 Sep;42(5):1149-57. doi: 10.1093/schbul/sbw036. Epub 2016 Apr 8. PMID: 27060129
6. Minzenberg MJ, Lesh TA, Niendam TA, Cheng Y, **Carter CS** (2016). Conflict-Related Anterior Cingulate Functional Connectivity Is Associated With Past Suicidal Ideation and Behavior in Recent-Onset Psychotic Major Mood Disorders. *J Neuropsychiatry Clin Neurosci*. 2016 Apr 8:appineuropsych15120422. Epub ahead of print. PMID: 27056021
7. **Carter CS**, Lesh TA, Barch DA (2016). Thresholds, Power, and Sample Sizes in Clinical Neuroimaging. *Biological Psychiatry: Cognitive Neuroscience and Neuroimaging*. Volume 1, Issue 2, March 2016, Pages 99-100.
8. Girgis RR, Van Snellenberg JX, Glass A, Kegeles LS, Thompson JL, Wall M, Cho RY, **Carter CS**, Slifstein M, Abi-Dargham A, Lieberman JA (2016). A proof-of-concept, randomized controlled trial of DAR-0100A, a dopamine-1 receptor agonist, for cognitive enhancement in schizophrenia. *J Psychopharmacol*. 2016 May;30(5):428-35. doi: 10.1177/0269881116636120. Epub 2016 Mar 10. PMID: 26966119
9. Lynch S, McFarlane WR, Joly B, Adelsheim S, Auther A, Cornblatt BA, Migliorati M, Ragland JD, Sale T, Spring E, Calkins R, **Carter CS**, Jaynes R, Taylor SF, Downing D (2016). Early Detection, Intervention and Prevention of Psychosis Program: Community Outreach and Early Identification at Six U.S. Sites. *Psychiatric Services*. 2016 May 1;67(5):510-6. doi: 10.1176/appi.ps.201300236. Epub 2016 Jan 14.
10. Ragland JD, Ranganath C, Phillips J, Boudewyn MA, Kring AM, Lesh TA, Long DL, Luck SJ, Niendam TA, Solomon M, Swaab TY, **Carter CS** (2015). Cognitive Control of Episodic Memory in Schizophrenia: Differential Role of Dorsolateral and Ventrolateral Prefrontal Cortex. *Front Hum Neurosci*. 2015 Nov 10;9:604. doi: 10.3389/fnhum.2015.00603. eCollection 2015.
11. Ragland JD, Ranganath C, Harms MP, Barch DM, Gold JM, Layher E, Lesh TA, MacDonald AW 3rd, Niendam TA, Phillips J, Silverstein SM, Yonelinas AP, **Carter CS** (2015). Functional and Neuroanatomic Specificity of Episodic Memory Dysfunction in Schizophrenia: A Functional Magnetic Resonance Imaging Study of the Relational and Item-Specific Encoding Task. *JAMA Psychiatry*. 72(9):909-16.
12. Solomon M, Ragland JD, Niendam TA, Lesh TA, Beck JS, Matter JC, Frank MJ, **Carter CS** [Epub 2015]. Atypical Learning in Autism Spectrum Disorders: A Functional Magnetic Resonance Imaging Study of Transitive Inference. *J Am Acad Child Adolesc Psychiatry*. 2015 Nov;54(11):947-55.
13. Minzenberg MJ, Lesh T, Niendam T, Yoon JH, Cheng Y, Rhoades RN, **Carter CS**. (2015) Frontal Motor Cortex Activity During Reactive Control Is Associated With Past Suicidal Behavior in Recent-Onset Schizophrenia. *Crisis*. 2015 Sep;36(5):363-70.

14. Phillips RC, Salo T, **Carter CS**. (2015) Distinct neural correlates for attention lapses in patients with schizophrenia and healthy participants. *Front Hum Neurosci*. 2015 Oct 6;9:502.
15. Lopez-Garcia P, Lesh TA, Salo T, Barch DM, MacDonald AW 3rd, Gold JM, Ragland JD, Strauss M, Silverstein SM, **Carter CS**. (2015) The neural circuitry supporting goal maintenance during cognitive control: a comparison of expectancy AX-CPT and dot probe expectancy paradigms. *Cogn Affect Behav Neurosci*. 2015 Oct 22. Epub ahead of print.
16. Sheffield JM, Repovs G, Harms MP, **Carter CS**, Gold JM, MacDonald AW 3rd, Ragland JD, Silverstein SM, Godwin D, Barch DM. (2015) Evidence for Accelerated Decline of Functional Brain Network Efficiency in Schizophrenia. *Schizophr Bull*. 2015 Oct 15. pii: sbv148. Epub ahead of print.
17. Sheffield JM, Repovs G, Harms MP, **Carter CS**, Gold J, MacDonald III AW, Ragland JD, Silverstein S, Godwin, D, Barch DM (2015). Evidence for accelerated decline of functional network efficiency in schizophrenia. *Schizophrenia Bulletin*. Oct 15. pii: sbv148. Epub ahead of print.
18. **Carter CS** (2015). Rectifying disordered brain dynamics to improve cognition in schizophrenia. *Proceedings of the National Academy of Sciences of the United States of America*. 2015 Jul 28;112(30):9152-3. Doi: 10.1073/pnas.1511091112. Epub 2015 Jul 8.
19. Minzenberg MJ, Yoon JH, Cheng Y, **Carter CS** (2015). Sustained Modafinil Treatment Effects on Control-Related Gamma Oscillatory Power in Schizophrenia. *Neuropsychopharmacology*. 2015 Sep 2. Doi: 10.1038/npp.2015.271. Epub ahead of print.
20. Minzenberg MJ, Lesh TA, Niendam TA, Yoon JH, Cheng Y, Rhoades RN, **Carter CS** (2015). Control-Related Frontal-Striatal Function is Associated with Past Suicidal Ideation and Behavior in Patients with Recent-Onset Psychotic Major Mood Disorders. *Journal of Affective Disorders*. 188:202-9.
21. **Carter CS**, Ragland JD, Niendam TA, Lesh TA, Frank MJ, Beck JS, Matter JC (2015). Atypical Learning in Autism Spectrum Disorders: An fMRI Study of Transitive Inference. *Journal of the American Academy of Child and Adolescent Psychiatry*. 54(11):947-55.
22. Phillips RC, Salo T, **Carter CS** (2015). Distinct neural correlates for attention lapses in patients with schizophrenia and healthy participants. *Frontiers in Human Neuroscience*. 6;9:502.
23. Sheffield JM, Repovs G, Harms MP, **Carter CS**, Gold JM, MacDonald III AW, Ragland JD, Silverstein SM, Godwin D, Barch DM (2015). Fronto-parietal and cingulo-opercular network integrity and cognition in health and schizophrenia. *Neuropsychologia*. 73:82-93.
24. Swaab TY, **Carter CS**, Long D, Traxler M, Lesh TA, Mangun GR, Boudewyn MA, Shruti D (2015). Sensitivity to Referential Ambiguity in Discourse: the Role of Attention, Working Memory and Verbal Ability. *Journal of Cognitive Neuroscience*. 27(12):2309-23.
25. Jarskog LF, Lowy MT, Grove RA, Keefe RSE, Horrigan JP, Ball MP, Breier A, Buchanan RW, **Carter CS**, Csernansky JG, Goff DC, Green MF, Kantrowitz JT, Keshavan MS, Laurell M, Lieberman JA, Marder SR, Maruff P, McMahon RP, Seidman LJ, Peykavian MA (2015). A Phase II study of a histamine H3 receptor antagonist GSK239512 for cognitive impairment in stable schizophrenia subjects on antipsychotic therapy. *Schizophrenia Research*. 164(1-3):136-42.
26. Kappenman ES, Luck SJ, Kring AM, Lesh TA, Mangun GR, Niendam TA, Ragland JD, Ranganath C, Solomon M, Swaab TY, **Carter CS** (2014). Electrophysiological evidence for impaired control of motor output in schizophrenia. *Cerebral Cortex*. Jan 24. pii: bhu329. Epub ahead of print.
27. Poppe AB, **Carter CS**, Minzenberg MJ, MacDonald AW 3rd (2014). Task-based functional connectivity as an indicator of genetic liability. *Schizophrenia Research*. 162(1-3):118-23.
28. Lesh TA, Tanase C, Geib BR, Niendam TA, Yoon JHY, Minzenberg MJ, Ragland JD, Solomon M, **Carter CS** (2014). A Multi-modal Analysis of Antipsychotic Effects on Brain Structure and Function in First-Episode Schizophrenia. *Jama Psychiatry*. 72(3):226-3.
29. Solomon M, Frank MJ, Ragland JD, Smith AC, Niendam TA, Lesh TA, Grayson DS, Beck JS, Matter JC, **Carter CS** (2014). Feedback-Driven Trial-by-Trial Learning in Autism Spectrum Disorders. *American Journal of Psychiatry*. 2014 Aug 26. Epub ahead of print.
30. Fisher M, Loewy R, **Carter CS**, Lee A, Ragland JD, Niendam TA, Schlosser D, Pham L, Miskovich T, Vinogradov S (2014). Neuroplasticity-Based Auditory Training Via Laptop Computer Improves Cognition in Young Individuals With Recent Onset Schizophrenia. *Schizophrenia Bulletin* 2014 Jan 20. Epub ahead of print.

31. Minzenberg MJ, Lesh TA, Niendam TA, Yoon JH, Rhoades RN, **Carter CS** (2014). Frontal cortex control dysfunction related to long-term suicide risk in recent-onset schizophrenia. *Schizophrenia Research* Aug; 157(1-3):19-25.
32. Mote, J, Minzenberg MJ, **Carter CS**, Kring AM (2014). Deficits in anticipatory but not consummatory pleasure in people with recent-onset schizophrenia spectrum disorders. *Schizophrenia Research*. 159(1):76-9.
33. Minzenberg MJ, Yoon JH, Cheng YA, **Carter CS** (2014). Modafinil Effects on Middle-Frequency Oscillatory Power During Rule Selection in Schizophrenia. *Neuropsychopharmacology*. Epub ahead of print.
34. McFarlane WR, Levin B, Travis L, Lucas FL, Lynch S, Verdi M, Williams D, Adelsheim S, Calkins R, **Carter CS**, Cornblatt B, Taylor SF, Author AM, McFarland B, Melton R, Migliorati M, Niendam T, Ragland JD, Sale T, Salvador M, Spring L (2014). Clinical and functional outcomes after 2 years in the Early Detection and Intervention for the Prevention of Psychosis multisite effectiveness trial. *Schizophrenia Bulletin*. 41(1):30-43.
35. Caldwell JG, Krug MK, **Carter CS**, Minzenberg MJ (2014). Cognitive Control in the Face of Fear: Reduced Cognitive-Emotional Flexibility in Women with a History of Child Abuse. *Journal of Aggression, Maltreatment & Trauma*, 23:5, 454-472.
36. Fassbender C, Scangos K, Lesh TA, **Carter CS** (2014). RT Distributional Analysis of Cognitive Control-Related Brain Activity in First Episode Schizophrenia. *Cognitive, Affective & Behavioral Neuroscience* 14(1):175-88.
37. Pakyurek M, Yarnal R, **Carter CS** (2013). Treatment of psychosis in children and adolescents: a review. *Adolesc Med State Art Rev* Aug;24(2):420-32, ix.
38. Lesh TA, Westphal AJ, Niendam TA, Yoon JH, Minzenberg MJ, Ragland JD, Solomon M, **Carter CS** (2013). Proactive and reactive cognitive control and dorsolateral prefrontal cortex dysfunction in first episode schizophrenia. *Neuroimage: Clinical* 2:590-599.
39. Swaab T, Boudewyn M, Long D, Luck S, Kring A, Ragland JD, Ranganath C, Lesh TA, Niendam TA, Solomon M, Mangun GR, **Carter CS** (2013). Spared and Impaired Spoken Discourse Processing in Schizophrenia: Effects of Local and Global Language Context. *Journal of Neuroscience* 33(39):15578-87.
40. Niendam TA, Lesh TA, Yoon J, Westphal AJ, Hutchison N, Ragland JD, Solomon M, Minzenberg M, **Carter CS** (2013). Impaired context processing as a potential marker of psychosis risk state. *Psychiatry Research* 221(1):13-20.
41. **Carter CS**, Bullmore, E.T., Harrison, P. Is there a Flame in the Brain in Psychosis? *Biological Psychiatry* 75(4):258-9.
42. Minzenberg MJ, Gomes GC, Yoon JH, Swaab TY, **Carter CS** (2013). Disrupted action monitoring in recent-onset psychosis patients with schizophrenia and bipolar disorder. *Psychiatry Research: Neuroimaging* 221(1):114-21.
43. Moore H, Geyer, MA, **Carter CS**, Barch DM (2013). Harnessing cognitive neuroscience to develop new treatments for improving cognition in schizophrenia: CNTRICS selected cognitive paradigms for animal models. *Neuroscience & Biobehavioral Reviews* 37(9):2087-91.
44. Sheffield JM, Gold JM, Strauss ME, **Carter CS**, Macdonald AW 3rd, Ragland JD, Silverstein SM, Barch DM (2013). Common and specific cognitive deficits in schizophrenia: relationships to function. *Cognitive, Affective & Behavioral Neuroscience*. Epub ahead of print.
45. Tryon MS, **Carter CS**, Decant R, Laugero KD (2013). Chronic stress exposure may affect the brain's response to high calorie food cues and predispose to obesogenic eating habits. *Physiology & Behavior* 120:233-42.
46. Salo RE, Fassbender C, Iosif AM, Ursu S, Leamon MH, **Carter CS** (2013). Predictors of methamphetamine psychosis: History of ADHD-relevant childhood behaviors and drug exposure. *Psychiatry Research* 210(2):529-35.
47. Solomon M, Yoon JH, Niendam TA, Ragland JD, Lesh TA, Fairbrother W, **Carter CS** (2013). The development of the neural substrates of cognitive control in adolescents with autism spectrum disorders. *Biological Psychiatry* 76(5):412-21.
48. Ravizza SM, Solomon M, Ivry RB, **Carter CS** (2013). Restricted and repetitive behaviors in autism spectrum disorders: The relationship of attention and motor deficits. *Development and Psychopathology* 25(3):773-84.
49. Strauss ME, McLouth CJ, Barch DM, **Carter CS**, Gold JM, Luck SJ, Macdonald AW 3rd, Ragland JD, Ranganath C, Keane BP, Silverstein SM (2013). Temporal Stability and Moderating Effects of Age and Sex on CNTRaCS Task Performance. *Schizophrenia Bulletin* 40(4):835-44.
50. Paz-Alonso PM, Ghatti S, Ramsay I, Solomon M, Yoon J, **Carter CS**, Ragland JD (2013). Semantic processes leading to true and false memory formation in schizophrenia. *Schizophrenia Research* 147(2-3):320-5.

51. Fulford D, Niendam TA, Floyd EG, **Carter CS**, Mathalon DH, Vinogradov S, Stuart BK, Loewy, RL (2013). Symptom dimensions and functional impairment in early psychosis: more to the story than just negative symptoms. *Schizophrenia Research* 147(1):125-31.
52. Richard AE, **Carter CS**, Cohen JD, Choy RY (2013). Persistence, diagnostic specificity and genetic liability for context-processing deficits in schizophrenia. *Schizophrenia Research* 147(1):75-80.
53. Owoso A, **Carter CS**, Gold JM, Macdonald AW, Ragland JD, Silverstein SM, Strauss ME, Barch DM (2013). Cognition in schizophrenia and schizo-affective disorder: impairments that are more similar than different. *Psychological Medicine* 25:1-11.
54. Miller M, Bales KL, Taylor SL, Yoon J, Hostetler CM, **Carter CS**, Solomon M (2013). Oxytocin and Vasopressin in children and adolescents with autism spectrum disorders: sex differences and associations with symptoms. *Autism Research* 6(2):91-102.
55. Yoon JH, Minzenberg MJ, Raouf S, D'Esposito, **Carter CS** (2013). Impaired prefrontal-Basal Ganglia functional connectivity and substantial nigra hyperactivity in schizophrenia. *Biological Psychiatry* 74(2):122-9.
56. McFarlane WR, Cook WL, Downing D, Ruff A, Lynch S, Adelsheim S, Calkins R, **Carter CS**, Cornblatt B, and Milner K (2012). Early Detection, Intervention, and Prevention of Psychosis Program: Rationale, Design, and Sample Description. *Adolescent Psychiatry* 2(2) 112-124.
57. McFarlane WR, Cornblatt B, **Carter CS** (2012). Early Intervention in Psychosis: Rationale, Results and Implications for Treatment of Adolescents at Risk. *Adolescent Psychiatry* 2:2 Pp: 125-139.
58. Pakyurak M, Yarnal R, **Carter CS** (2012). Treatment of Psychosis in Children and Adolescents- A Review. *Journal of Pediatrics*. 24(2):420-32, ix.
59. Boudewyn MA, **Carter CS**, Swaab TY (2012). Cognitive control and discourse comprehension in schizophrenia. *Schizophrenia Research Treatment*. 2012:484-502.
60. Krug MK, **Carter CS** (2012). Proactive and reactive control during emotion interference and its relationship to trait anxiety. *Brain Research* 1481:13-36.
61. Minzenberg MJ, Yoon JH, Soosman SK, **Carter CS** (2012). Excessive Contralateral Motor Overflow in Schizophrenia Measured by fMRI. *Psychiatry Research: Neuroimaging* 202(1):38-45.
62. Yoon JH, Nguyen DV, McVay LM, Deramo P, Minzenberg MJ, Ragland JD, Niendam T, Solomon M, **Carter CS** (2012). Automated classification of fMRI during cognitive control identifies more severely disorganized subjects with schizophrenia. *Schizophrenia Research* 135(1-3):28-33.
63. Niendam TA, Laird AR, Ray KL, Dean YM, Glahn DC, **Carter CS** (2012). Meta-analytic evidence for a superordinate cognitive control network subserving diverse executive functions. *Cognitive Affective Behavior in Neuroscience* 12(2):241-68.
64. Keane BP, Silverstein SM, Barch DM, **Carter CS**, Gold JM, Kovacs I, MacDonald AW 3rd, Ragland JD, Strauss ME (2012). The spatial range of contour integration deficits in schizophrenia. *Experimental Brain Research* 220(3-4):251-9.
65. **Carter CS** (2012). Neuroeconomics: sharpened tools of value for clinical cognitive and affective neuroscience. *Biological Psychiatry* 72(2):82-3.
66. Minzenberg MJ, **Carter CS** (2012). Developing treatments for impaired cognition in schizophrenia. *Trends in Cognitive Science* 16:35-42.
67. Millan MJ, Agid Y, Brune M, Bullmore ET, **Carter CS**, Clayton NS, Connor R, Davis S, Deakin B, Derubeis RJ, Dubois B, Geyer MA, Goodwin GM, Gorwood P, Jay TM, Joels M, Mansuy IM, Meyer-Lindenberg A, Murphy D, Rolls E, Saletu B, Spedding M, Sweeney J, Whittington M, Young LJ (2012). Cognitive dysfunction in psychiatric disorders: characteristics, causes and the quest for improved therapy. *Nature Reviews/Drug Discovery* 11:141-168.
68. Barch D M, **Carter CS**, Dakin SC, Gold J, Luck SJ, MacDonald A 3rd, Ragland JD, Silverstein S, Strauss ME (2012). The clinical translation of a measure of gain control: the contrast-contrast effect. *Schizophrenia Bulletin* 38:135-143.
69. Gold JM, Barch DM, **Carter CS**, Dakin S, Luck SJ, MacDonald AW 3rd, Ragland JD, Ranganath C, Kovacs I, Silverstein SM, Strauss M (2012). Clinical, functional, and intertask correlations of measures developed by the Cognitive Neuroscience Test Reliability and Clinical Applications for Schizophrenia Consortium. *Schizophrenia Bulletin* 38:144-152.
70. Henderson D, Poppe AB, Barch DM, **Carter CS**, Gold JM, Ragland JD, Silverstein SM, Strauss ME, MacDonald AW 3rd (2012). Optimization of a goal maintenance task for use in clinical applications. *Schizophrenia Bulletin* 38:104-113.

71. Ragland JD, Ranganath C, Barch DM, Gold JM, Haley B, MacDonald AW 3rd, Silverstein SM, Strauss ME, Yonelinas AP, Carter CS (2012). Relational and item-specific encoding (RISE): Task development and psychometric characteristics. *Schizophrenia Bulletin* 38:114-124.
72. Silverstein SM, Keane BP, Barch DM, Carter CS, Gold JM, Kovacs I, Macdonald A 3rd, Ragland JD, Strauss ME (2012). Optimization and validation of a visual integration test for schizophrenia research. *Schizophrenia Bulletin* 38:125-134.
73. Ragland JD, Blumenfeld RS, Ramsay IS, Yonelinas A, Yoon J, Solomon M, Carter CS, Ranganath C (2012). Neural correlates of relational and item-specific encoding during working and long-term memory in schizophrenia. *NeuroImage* 59:1712-1726.
74. Carter CS, Minzenberg M, West R, MacDonald A 3rd (2012). CNTRICS imaging biomarker selections: Executive control paradigms. *Schizophrenia Bulletin* 38:34-42.
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INVITED PAPERS AND CHAPTERS:

1. Pakyurek M, Yarnal R, **Carter CS** (2013). Treatment of Psychosis in Children and Adolescents: A Review. American Academy of Pediatrics. Adolescent Medicine: State of the Art Reviews. *Current Psychopharmacology for Psychiatric Disorders in Adolescents*. August 2013, Volume 24, Number 2.
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BOOKS

Carter CS and Dalley JW, Brain Imaging in Behavioral Science, Springer 2014

ACTIVE RESEARCH FUNDING

5R01MH059883-11 (Carter) NIMH

06/01/2013 - 06/01/2018

Pathophysiology of Cognitive Disability in Schizophrenia: Using fMRI and two cognitive tasks evaluating unique aspects of cognitive control and approach motivation we will test the hypothesis that during a first episode of psychosis both schizophrenia and bipolar disorder patients will show cognitive control deficits that in schizophrenia will remain as stable trait deficits during the first year of illness but that in Bipolar disorder will show substantial improvement with clinical remission. In contrast Bipolar Disorder patients will show an enhanced sensitivity to repeated rewards that will be stable across clinical states, while schizophrenia patients will show intact or reduced responses to incentives across the course of the first year of illness.

5R01MH084826-05 (Carter) NIMH

10/12/2013 - 10/01/2017

Cognitive Neuroscience Task Reliability and Clinical Application Consortium Behavioral tasks measuring the RDoC constructs of reward sensitivity and working memory capacity will be validated, optimized, and characterized psychometrically. Optimized measures and their psychometric characteristics will then be publically available for use in treatment development studies.

5R21MH099327-02 (Carter, Swaab Co-PI's)

02/01/2013 - 02/01/2015

Cognitive Control and Language Impairments in Schizophrenia. We will use ERP's to test the hypothesis that the inability to integrate discourse level context leads to comprehension deficits that in turn are related to social and functional disability in schizophrenia.

5R01MH104235-02 (Carter) NIMH

09/01/2014 - 09/01/2018

Reducing Duration of Untreated Psychosis through Rapid Identification and Engagement in a controlled study within an established early psychosis specialty treatment program in Sacramento we will use a novel hand held device based screening approach as well as telemedicine enabled community based interventions we will seek to reduce the duration of untreated psychosis and improve outcomes in young people undergoing a first episode of psychotic illness.

2T32MH082174-06A1 (Carter) NIMH Training Program in Basic Neuroscience

06/30/2014 - 06/30/2019

Provides support for pre-doctoral trainees in the UC Davis Neuroscience Graduate Group during their first year of general training.

HHSN2712012000071 (Carter) NIMH FAST-FS

08/01/2015 - 07/01/2015

(Contract to Research Foundation for Mental Health, Columbia University)

Development and execution of experimental medicine studies using imaging biomarkers to confirm target engagement for novel treatments for psychotic disorders.

1P50MH106438-01 (Carter) NIH/NIMH

04/01/2015 - 03/31/2020

UC Davis Conte Center Neuroimmune Mechanisms of Psychiatric Disorders

The goal of the Conte Center is to test the hypothesis that maternal immune activation contributes to schizophrenia by altering immune molecules in the brains of offspring, which, in turn, alters cortical connectivity, function, and behavior during development.