

CURRICULUM VITAE**Jason Smucny, Ph.D.**

Assistant Adjunct Professor, Step 3

Department of Psychiatry and Behavioral Sciences, Imaging Research Center and Center for Neuroscience

University of California Davis Medical Center

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jsmucny@ucdavis.edu**EDUCATION**

2016 UNIVERSITY OF COLORADO, Ph.D. Neuroscience
 2007 YALE UNIVERSITY, M.S. Neuroscience
 2004 AMHERST COLLEGE, B.A. Neuroscience, *Cum Laude*

CERTIFICATIONS

2022 Certified Data Analyst, University of California Davis Division of Continuing and Professional Education

POSITIONS HELD

2021- Assistant Adjunct Professor, Department of Psychiatry and Behavioral Sciences, University of California Davis Medical Center, Sacramento, CA
 2017-2021 Postdoctoral Fellow, Center for Neuroscience, University of California Davis Medical Center, Sacramento, CA
 2015 Predoctoral Fellow, National Institute on Drug Abuse, National Institutes of Health, Baltimore, MD
 2010-2016 Graduate Student, Neuroscience Program and Department of Psychiatry, University of Colorado Anschutz Medical Campus (UCAMC), Aurora, CO
 2009-2010 Research Associate, National Prion Disease Pathology and Surveillance Center, Case Western Reserve University, Cleveland, OH
 2007-2009 Research Biologist, Neuroscience Department, Merck Research Labs, West Point, PA
 2004-2006 Graduate Student, Yale University, New Haven, CT
 2004 Research Assistant, Department of Neuroscience and Physiology, University of New York Upstate, Syracuse, NY
 2002 Howard Hughes Undergraduate Fellow, Department of Neurosciences, Case Western Reserve University, Cleveland, OH
 2001 Undergraduate Research Assistant, NSF-Supported Summer Research Program, Department of Biological Sciences, SUNY Albany, Albany, NY

CURRENT AND PREVIOUS GRANT AND FELLOWSHIP SUPPORT

K01 MH125096 (Smucny) 09/01/2021 –
 NIH/NIMH \$161,780 annual direct costs

Predictive Markers and Mechanisms of Persistent Psychotic-like Experiences in Children: An Adolescent Brain and Cognitive Development Study Analysis. This proposal uses deep learning and structural equation modeling to examine the genetic, environmental, structural, and functional bases of sustained psychotic-like experiences in children.

F32 MH114325 (Smucny) 07/01/2017 – 6/30/2020
 NIH/NIMH \$60,854 annual direct costs

The Effects of Transcranial Direct Current Stimulation on the Neuronal Mechanisms of Cognitive Control in Schizophrenia. This fellowship seeks to test the hypothesis that acute transcranial direct current stimulation applied to the frontal cortex will reduce functional and behavioral deficits in cognitive control in recent onset schizophrenia.

F31 MH102879 (Smucny) 04/01/2014 – 6/30/2017
NIH/NIMH \$28,619 annual direct costs

Functional Imaging of the Nicotinic Basis for Attention Deficits in Schizophrenia. The aim of this study is to use functional magnetic resonance imaging to examine brain function during an attention task with noise distractors, and to determine if atypical brain activity in patients during the task can be improved with nicotine.

CURRENT AND PREVIOUS GRANT AND FELLOWSHIP SUPPORT (Continued)

2013 Achievement Rewards for College Scientists Foundation Predoctoral Scholarship.
2012-2013 Colorado Clinical and Translational Sciences Institute Predoctoral Fellowship: ***Clinical Trials of an Allosteric Modulator of the Alpha7 Nicotinic Cholinergic Receptor.*** This project evaluated the effect of $\alpha 7$ receptor stimulation for a therapeutic efficacy in schizophrenia.
2010-2012 NIH T32 Predoctoral Training Grant (HD 41697-10).
2005-7 National Science Foundation Graduate Student Research Fellowship
2004-5 John Woodruff Simpson Fellowship in Neuroscience (Amherst College)
2004 Amherst College Dean of Faculty Grant for Research
2003, 2004 Sigma-Xi Grants in Aid of Research (x2)

HONORS

2021 UC Davis Academic Federation Travel Award
2021 *Biological Psychiatry: Cognitive Neuroscience and Neuroimaging* Top 10 Reviewer
2020 UC Davis Postdoctoral Association Travel Award
2019 Travel Award, American College of Neuropsychopharmacology 58th Annual Meeting
2019 *Biological Psychiatry: Cognitive Neuroscience and Neuroimaging* Top 10 Reviewer
2016 Colorado Clinical and Translational Sciences Institute Doctoral Certificate
2015 National Institutes of Health Summer Internship Program in Biomedical Research Fellowship
2014 UCLA Advanced Neuroimaging Summer Training Program (Student)
2013, 2014 UCAMC C. Werner and Kitty Hirs Travel Awards (x2)
2011 Outstanding Student Poster, Department of Psychiatry Annual Poster Session
2007 Merck Research Laboratories Merit Award
2004 Amherst College James Olds Memorial Neuroscience Award

PROFESSIONAL MEMBERSHIPS AND ORGANIZATIONS

2020- Organization for Human Brain Mapping
2013- Schizophrenia International Research Society
2013- American Psychological Association
2012-2016 Neuroscience Program Curriculum Committee (UCAMC)
2012- Society of Biological Psychiatry
2011- Society for Neuroscience
2011 Neuroscience Program Hiring Committee (UCAMC)
2004 Sigma Xi

EDITORIAL BOARD SERVICE

2022- Review Editor, *Frontiers in Psychiatry*
2021- Academic Editor, *BMC Psychiatry*
2021- Academic Editor, *PLOS One*

ACADEMIC SERVICE

2022- Faculty Merit Review Committee
2021- UC Davis Imaging Center IDEA (Inclusion, Diversity, Anti-Racism and Equity) Committee

MENTEES

2022	Avery Wood, B.S.
2022	Andrea Perrottelli, B.S.
2022	Soumil Shekdar, B.S.
2022	Linhao Chen, B.S.
2022	Hiroshi Sakakibara, B.S.
2022	Ruyi Yang, B.S.
2021-	Ge Shi, B.S.
2018	Jaxon Grandchamp
2018	Sydney Carlier
2014	Adrienne Visani
2013	Darin Brown
2012	Jackie Koehn
2012	Quang Dang

GRANT REVIEWING

2021	United Kingdom Medical Research Council Career Development Award
2022	National Institutes of Health Emerging Imaging Technology study section early career reviewer

JOURNAL ARTICLE REVIEWING

The American Journal of Psychiatry
Biological Psychiatry
Neuroscience and Biobehavioral Reviews
Schizophrenia Bulletin
Translational Psychiatry
Neuroimage: Clinical
Biological Psychiatry: Cognitive Neuroscience and Neuroimaging
Acta Psychiatrica Scandinavica
Schizophrenia Research
Psychopharmacology
Psychiatry Research: Neuroimaging
PLoS One
Neuroscience Letters
International Journal of Neuropsychopharmacology
Human Brain Mapping
Journal of Psychopharmacology
Frontiers in Human Neuroscience
Frontiers in Psychiatry

REFEREED ARTICLES (In Reverse Order of Acceptance, 1107 total citations, h-index: 17, i-10 index: 31):

1. **Smucny J**, Shi G, Lesh TA, Carter CS, Davidson I (In Press). Data Augmentation with Mixup: Enhancing Performance of a Functional Neuroimaging-Based Prognostic Deep Learning Classifier in Recent Onset Psychosis. *Neuroimage Clin*.
2. **Smucny J**, Shi G, Davidson I (2022). Deep learning in neuroimaging: overcoming challenges with emerging approaches. *Front Psychiatry* 13.
3. **Smucny J**, Carter CS, Maddock RJ (2022). Magnetic resonance spectroscopic evidence of increased choline in the dorsolateral prefrontal and visual cortices in recent onset schizophrenia. *Neurosci Lett* 770: Article 136410.
4. **Smucny J**, Dienel SJ, Lewis DA, Carter CS (2022). Mechanisms underlying dorsolateral prefrontal cortex contributions to cognitive dysfunction in schizophrenia. *Neuropsychopharmacology* 47(1): 292-308.

5. **Smucny J**, Carter CS, Maddock RJ (2021). Medial prefrontal cortex glutamate is reduced in schizophrenia and moderated by measurement quality: A meta-analysis of 1H-MRS studies. *Biol Psychiatry* 90(9): 643-651.
6. **Smucny J**. What transcranial direct current stimulation intensity is best for cognitive enhancement? (2021). *J Neurophysiol.* 125(2): 606-608.
7. **Smucny J**, Tully LM, Howell AM, Lesh TA, Johnson SJ, O'Reilly RC, Minzenberg MJ, Ursu S, Yoon JH, Niendam TA, Ragland JD, Carter CS (2021). Schizophrenia and bipolar disorder are associated with opposite brain reward anticipation-associated response. *Neuropsychopharmacology* 46(6):1152-1160.
8. Bergé D, Lesh TA, **Smucny J**, Carter CS (In Press). Improvement in prefrontal thalamic connectivity during the early course of the illness in recent onset psychosis: A 12 month longitudinal follow up resting state fMRI study. *Psychol Med*.
9. **Smucny J**, Davidson I, Carter CS (2021). Comparing machine and deep learning-based algorithms for prediction of clinical improvement in psychosis with fMRI. *Human Brain Mapp* 42(4):1197-1205.
10. Lim K, **Smucny J**, Barch DM, Lam M, Keefe RSE, Lee J (2021). Cognitive subtyping in schizophrenia: A latent profile analysis. *Schizophr Bull* 47(3):712-721.
11. **Smucny J**, Carter CS (2020). Can pharmacological augmentation of cognition training remediate age-related cognitive decline? *Am J Psychiatry* 177(6):485-7.
12. **Smucny J**, Lesh TA, Zarubin VC, Niendam TA, Ragland JD, Tully LM, Carter CS (2020). One-year stability of frontoparietal cognitive control network connectivity in recent onset schizophrenia: A task-related 3T fMRI study. *Schizophr Bull* 46(5):1249-1258.
13. **Smucny J**, Zarubin VC, Ragland JD, Carter CS (2020). Are visual memory deficits in recent onset psychosis degenerative? *Am J Psychiatry* 177(4): 355-6.
14. Cali I, Puoti G, **Smucny J**, Curtiss P, Cracco L, Kitamoto T, Occhipinti R, Cohen M, Appleby B, Gambetti P (2020). Co-existence of PrPD types 1 and 2 in sporadic Creutzfeldt-Jakob disease of the VV subgroup: phenotypic and prion protein characteristics. *Sci Rep* 10(1):1503.
15. **Smucny J**, Lesh TA, Carter CS (2019). Baseline frontoparietal task-related BOLD activity predicts improvement in clinical symptoms during early psychosis specialty care at one-year follow-up in recent onset psychosis. *Am J Psychiatry* 176(10):839-845.
16. **Smucny J**, Iosif A-M, Eaton NR, Lesh TA, Ragland JD, Barch DM, Gold JM, Strauss ME, MacDonald AW 3rd, Silverstein SM, Carter CS (2020). Latent profiles of cognitive control, episodic memory, and visual perception across psychiatric disorders reveal a dimensional structure. *Schizophr Bull* 46(1):154-62.
17. Bauman MD, Lesh TA, Rowland DG, Schumann CM, **Smucny J**, Kukis D, Cherry SR, McAllister AK, Carter CS (2019). Preliminary evidence of increased striatal dopamine in a nonhuman primate model of maternal immune activation. *Transl Psychiatry* 9(1): 135.
18. **Smucny J**, Barch DM, Gold JM, Strauss ME, Macdonald AW III, Boudewyn MA, Ragland JD, Silverstein SM, Carter CS (2019). Cross-diagnostic analysis of cognitive control in mental illness: Insights from the CNTRACS consortium. *Schizophr Res* 208: 377-383.
19. Tregellas JR, **Smucny J**, Rojas DC, Legget KT (2018). Predicting academic career outcomes by predoctoral publication record. *Peer J* 6: e5707.
20. **Smucny J** (2018). Cognitive deficits, structural neuropathology, and psychotic illness: is it all a matter of severity? *Biol Psychiatry Cogn Neurosci Neuroimaging* 3(12): 978-980.

21. Niendam TA, Ray KL, Iosif A-M, Lesh TA, Ashby S, Patel P, **Smucny J**, Ferrer E, Solomon M, Ragland JD, Carter CS (2018). Evidence for stable, non-deteriorating prefrontal functioning following the onset of schizophrenia: a longitudinal fMRI study. *JAMA Psychiatry* 75(12): 1252-1260.
22. **Smucny J**, Lesh TA, Iosif AM, Niendam TA, Tully LJ, Carter CS (2018). Longitudinal stability of cognitive control in early psychosis: Non-degenerative deficits across diagnoses. *J Abnorm Psychol* 127(8):781-788.
23. **Smucny J** (2018). Cognitive control, the anterior cingulate, and nicotinic receptors: A case of heterozygote advantage. *J Neurosci* 38(2):257-259.
24. **Smucny J**, Lesh TA, Newton K, Niendam T, Ragland JD, Carter CS (2018). Levels of cognitive control: A functional magnetic resonance imaging-based test of an RDoC domain across bipolar disorder and schizophrenia. *Neuropsychopharmacology* 43(3):598-606.
25. **Smucny J**, Tregellas JR (2017). Targeting Neuronal Dysfunction in Schizophrenia with Nicotine: Evidence from Neurophysiology to Neuroimaging. *J Psychopharmacol* 31(7):801-811.
26. **Smucny J**, Wylie KP, Kronberg E, Legget KT, Tregellas JR (2017). Nicotinic modulation of salience network connectivity and centrality in schizophrenia. *J Psychiatr Res* 89:85-96.
27. Berman BD, **Smucny J**, Wylie KP, Shelton E, Kronberg E, Leehey M, Tregellas JR (2016). Levodopa modulates small-world architecture of functional brain networks in Parkinson disease. *Mov Disord* 31(11):1676-1684.
28. Wylie KP, **Smucny J**, Legget KT, Tregellas JR (2016). Targeting functional biomarkers in schizophrenia with neuroimaging. *Curr Pharm Des* 22(14):2117-23.
29. **Smucny J**, Olincy A, Tregellas JR (2016). Nicotine restores functional connectivity of the ventral attention network in schizophrenia. *Neuropharmacology* 108:144-151.
30. **Smucny J**, Olincy A, Rojas DC, Tregellas JR (2016). Neuronal effects of nicotine during auditory selective attention in schizophrenia. *Hum Brain Mapp* 37(1): 410-21.
31. Tregellas JR, **Smucny J**, Legget KT, Stevens KE (2015). Effects of a ketogenic diet on auditory gating in DBA/2 mice: A proof-of-concept study. *Schizophr Res* 169(1-3):351-4.
32. **Smucny J**, Stevens KE, Olincy A, Tregellas JR (2015). Translational utility of rodent hippocampal auditory gating in schizophrenia research: a review and evaluation. *Transl Psychiatry* 5:e587.
33. Wylie KP, Kronberg E, Maharajh K, **Smucny J**, Cornier M-A, Tregellas JR (2015). Between-network connectivity occurs in brain regions lacking layer IV input. *Neuroimage* 116:50-8.
34. **Smucny J**, Visani A, Tregellas JR (2015). Could vagus nerve stimulation target hippocampal hyperactivity to improve cognition in schizophrenia? *Front Psychiatry* 6(43).
35. **Smucny J**, Stevens, KE, Tregellas JR (2015). The anti-epileptic drug Leviteracetam improves auditory gating in DBA/2 mice. *NPJ Schizophr* 1:e15002.
36. **Smucny J**, Wylie K, Tregellas JR (2015). Neuronal effects of nicotine during auditory selective attention. *Psychopharmacology* 232(11):2017-2028.
37. **Smucny J**, Wylie K, Tregellas JR (2014). Functional magnetic resonance imaging of intrinsic brain networks for translational drug discovery. *Trends Pharmacol Sci* 35(8):397-403.

38. Tregellas JR, **Smucny J**, Harris JG, Olincy A, Maharajh K, Kronberg E, Eichman LS, Lyons E, Freedman R (2014). Intrinsic hippocampal hyperactivity as a biomarker for cognition and symptoms in schizophrenia. *Am J Psychiatry* 171(5):549-56.
39. **Smucny J**, Stevens KE, Tregellas JR. Acute administration of Delta9 tetrahydrocannabinol does not prevent enhancement of sensory gating by clozapine in DBA/2 mice (2014). *Pharmacol Biochem Behav* 118:22-9.
40. **Smucny J**, Wylie KP, Rojas DC, Stevens KE, Zheng L, Olincy A, Tregellas JR (2013). Evidence for abnormal beta and gamma sensory gating as translational endophenotypes for schizophrenia. *Psychiatry Res* 214(2):169-74.
41. **Smucny J**, Tregellas JR. Nicotinic modulation of intrinsic networks in schizophrenia (2013). *Biochem Pharmacol* 86(8):1163-72.
42. **Smucny J**, Olincy A, Eichman LS, Lyons E, Tregellas JR (2013). Early sensory processing deficits predict susceptibility to distraction in schizophrenia. *Schizophr Res* 147(1):196-200.
43. **Smucny J**, Rojas DC, Eichman LS, Tregellas JR (2013). Neural effects of auditory distraction on visual attention in schizophrenia. *PLOS One* 8(4):e60606.
44. **Smucny J**, Rojas DC, Eichman LS, Tregellas JR (2013). Neuronal effects of auditory distraction on visual attention. *Brain Cogn* 81(2):263-70.
45. Tregellas JR, **Smucny J**, Eichman LS, Rojas DC (2012). The effect of distracting noise on the neuronal mechanisms of attention in schizophrenia. *Schizophr Res* 142(1-3):230-6.
46. **Smucny J**, Wylie KP, Tregellas JR (2012). Stimulus-dependent effects on right ear advantage in schizophrenia. *Neuropsych Dis Treat* 8:423-7.
47. **Smucny J**, Cornier M-A, Eichman LS, Thomas EA, Bechtell J, Tregellas JR (2012). Brain structure predicts risk for obesity. *Appetite* 59(3):859-65.
48. Ploski J, Pierre V, **Smucny J**, Park K, Monsey M, Overeem K, Schafe GE (2008). The activity regulated cytoskeletal-associated protein (Arc/Arg3.1) is required for memory consolidation of pavlovian fear conditioning in the lateral amygdala. *J Neurosci* 28(47):12383-95.

BOOK CHAPTERS

1. **Smucny J** (2014). "Schizophrenia." *The Brain, Nervous System, and its Diseases: An Encyclopedia of Neuroscience and Neurology*, ABC-CLIO.

ABSTRACTS

Invited Oral

1. **Smucny J** (2022). Neuroimaging Biomarkers for Prognosis in Psychotic Disorders: A Deep Learning-Based Approach. University of California, Davis Department of Psychiatry and Behavioral Sciences Grand Rounds, Sacramento, CA.
2. Bauman M, Lesh TA, **Smucny J**, Carter CS (2022). Conte Center updates on the effects of maternal immune activation on neurodevelopment in a nonhuman primate model. University of California, Davis Department of Psychiatry and Behavioral Sciences Grand Rounds, Sacramento, CA.
3. **Smucny J**, Lesh TA, Bauman MD, Chaudhari A, Chen S, Iosif A-M, McCallister AK, Rowland DG, Styner MA, Vlasova RM, Wang G, Carter CS (2022). "Relationship of striatal presynaptic dopamine to midbrain neuromelanin in a nonhuman primate model of maternal immune activation." Dopamine Society Meeting, Montreal, Canada.

4. **Smucny J**, Hanks TD, Lesh TA, O'Reilly RC, Carter CS (2022). "Altered associations between motivated performance and frontostriatal connectivity during reward anticipation in schizophrenia". Cognitive Neuroscience Society Annual Meeting, San Francisco, CA.
5. **Smucny J**, Lesh TA, Bauman MD, Chaudhari A, Chen S, Iosif A-M, McCallister AK, Rowland DG, Styner MA, Vlasova RM, Wang G, Carter CS (2022). "Relationship of striatal presynaptic dopamine to midbrain neuromelanin in a nonhuman primate model of maternal immune activation." Society of Biological Psychiatry Annual Meeting, New Orleans, LA.
6. Carter CS, **Smucny J**, Guo J, Lesh TA, Niendam TA (2021). "Cognitive control and neurodevelopment in psychotic disorders." Society for Psychophysiological Research Annual Meeting (Virtual Meeting).
7. Bérge D, Lesh TA, **Smucny J**, Carter CS (2020). "Thalamic connectivity in early psychosis during task and at rest." Annual Congress of the Schizophrenia International Research Society, Florence, Italy.
8. **Smucny J** (2019). "Early identification of treatment resistance in schizophrenia." UC Davis Frontiers in Biomedical Imaging Seminar Series, Sacramento, CA.
9. **Smucny J** (2015). "Nicotine reduces hippocampal hyperactivity during selective attention in schizophrenia." UCAMC Annual Neuroscience Retreat, Denver, CO.
10. **Smucny J** (2014). "Understanding the neurobiology of attention deficits in schizophrenia." UCAMC Department of Psychiatry Grand Rounds, Aurora, CO.
11. **Smucny J** (2011). "fMRI of sustained attention in schizophrenia." UCAMC Department of Psychiatry Grand Rounds, Aurora, CO.

Posters

1. Shi G, **Smucny J**, Davidson I (2022). Deep Learning For Prognosis Using Task-fMRI: A Novel Architecture and Training Scheme. Special Interest Group on Knowledge Discovery and Data Mining Annual Conference, Washington DC.
2. **Smucny J**, Hanks TD, Lesh TA, O'Reilly RC, Carter CS (2022). Altered Associations between motivated performance and frontostriatal connectivity during reward anticipation in schizophrenia. Cognitive Neuroscience Society Annual Meeting, San Francisco, CA.
3. Singh P, Rhilinger J, Olivan D, Ragland JD, Lesh TA, **Smucny J**, Carter CS (2022). Neuromelanin-sensitive MRI predicts treatment response in individuals with schizophrenia-spectrum disorders. Society of Biological Psychiatry Annual Meeting, New Orleans, LA.
4. **Smucny J**, Vlasova R, Lesh TA, Rowland DG, Iosif A-M, Shumann CM, Van Der Water J, McCallister AK, Maddock RJ, Amaral DG, Bauman MD, Carter CS (2021). A longitudinal examination of presynaptic dopamine in a nonhuman primate model of maternal immune activation. American College of Neuropsychopharmacology 60th Annual Meeting, San Juan, Puerto Rico.
5. Lesh TA, Olivan D, Singh P, Ragland JD, Niendam T, **Smucny J**, Carter CS (2021). Diffusion measures of extracellular free water predict response to treatment in individuals with schizophrenia-spectrum disorders. American College of Neuropsychopharmacology 60th Annual Meeting, San Juan, Puerto Rico.
6. Carter CS, Vlasova R, Lesh TA, Iosif A-M, **Smucny J**, Van Der Water J, McCallister AK, Maddock RJ, Styner M, Amaral DG, Bauman MD (2021). Prospective, longitudinal multi-modal imaging of altered brain development and behavior in a non-human primate model of maternal immune activation. American College of Neuropsychopharmacology 60th Annual Meeting, San Juan, Puerto Rico.

7. **Smucny J**, Carter CS, Maddock RJ (2020). Medial prefrontal cortex glutamate is reduced in schizophrenia and moderated by measurement quality: A meta-analysis of 1H-MRS studies. American College of Neuropsychopharmacology 59th Annual Meeting (Virtual Meeting).
8. **Smucny J**, Davidson I, Carter CS (2020). Comparing machine and deep learning-based algorithms for prediction of clinical improvement in psychosis with fMRI. Organization for Human Brain Mapping Annual Meeting (Virtual Meeting).
9. **Smucny J**, Iosif A-M, Barch DM, Loewy RL, Carter CS (2019). Micro and macroenvironmental predictors of childhood psychotic-like experiences at one-year follow-up in the ABCD cohort. American College of Neuropsychopharmacology 58th Annual Meeting, Orlando, FL.
10. Carter CS, Vlasova R, Lesh TA, Rowland DG, Iosif A-M, **Smucny J**, Schumann CM, Van de Water J, McAllister AK, Maddock RJ, Styner M, Amaral D, Bauman M (2019). Longitudinal multimodal neuroimaging in non-human primate cohort with maternal immune activation: Changes in brain structure, free water, and neurochemistry during the first 3 years. American College of Neuropsychopharmacology 58th Annual Meeting, Orlando, FL.
11. Bergé D, Lesh TA, **Smucny J**, Niendam TA, Carter CS (2019). Longitudinal resting state analysis of thalamic connectivity shows improvement in prefrontal connectivity after 12 months in first-episode psychosis. European Neuropsychopharmacology 29, S460-S460.
12. **Smucny J**, Carter CS, Vlasova R, Lesh TA, Rowland DG, Iosif A-M, Shumann CM, Van Der Water J, McAllister AK, Maddock RJ, Styner M, Amaral D, Bauman M (2019). Longitudinal multimodal neuroimaging in a non-human primate cohort with maternal immune activation: changes in brain structure, free water and neurochemistry during the first year of life. UC Davis PET Explorer Symposium, Sacramento, CA.
13. **Smucny J**, Bérgé D, Lesh TA, Carter CS (2019). Dissociable outcomes of 12-Month specialty care treatment on prefrontal activation and connectivity during cognitive control in recent-onset schizophrenia. Society of Biological Psychiatry Annual Meeting, Chicago, IL.
14. Carter C, Vlasova R, Lesh T, Rowland D, Iosif A-M, **Smucny J**, Shumann C, Van Der Water J, McAllister K, Maddock R, Styner M, Amaral D, Bauman M (2018). Longitudinal multimodal neuroimaging in a non-human primate cohort with maternal immune activation: changes in brain structure, free water and neurochemistry during the first year of life. American College of Neuropsychopharmacology 57th Annual Meeting, Hollywood, FL.
15. Girgis F, Prabhu A, Saez I, Scangos K, Gurkoff G, O'Connor K, Ditterich J, Carter C, **Smucny J**, Shahlaie K (2019). Effects of acute and subacute stimulation of ventral subthalamic nucleus on cognition and perceptual decision-making in patients with Parkinson's disease. 3rd Annual International Brain Stimulation Conference, Vancouver, Canada.
16. **Smucny J**, Lesh TA, Carter CS (2018). Baseline frontoparietal task-related BOLD activity predicts clinical improvement during early psychosis specialty care at one year follow-up in recent onset psychosis. American College of Neuropsychopharmacology 57th Annual Meeting, Hollywood, FL.
17. **Smucny J**, Lesh TA, Niendam TA, Ragland JD, Carter CS (2017). Stability of behavioral and fMRI measures of cognitive control deficits in early psychosis: Evidence for abnormal neurodevelopment rather than neurodegeneration. American College of Neuropsychopharmacology 56th Annual Meeting, Palm Springs, CA.
18. **Smucny J**, Olincy A, Tregellas JR (2016). Nicotine normalizes ventral attention network dysconnectivity during auditory selective attention in schizophrenia. Society of Biological Psychiatry Annual Meeting, Atlanta, GA.
19. Tregellas JR, Wylie K, **Smucny J**, Olincy A, Legget KT (2016). Reduced insula between-network connectivity in schizophrenia. Organization for Human Brain Mapping 22nd Annual Meeting, Hollywood, FL.

20. Tregellas JR, Wylie K, **Smucny J**, Olincy A, Legget KT (2015). Altered insula between-network connectivity in schizophrenia. ANCP 54th Annual Meeting, Hollywood, FL.
21. Berman BD, **Smucny J**, Wylie KP, Kronberg E, Tregellas JR (2015). Levodopa alters efficiency of resting state brain functional networks in Parkinson disease. 29th Annual Symposium on Etiology, Pathogenesis, and Treatment of Parkinson Disease and Other Movement Disorders, Ft. Myers, FL.
22. **Smucny J**, Olincy A, Rojas DC, Tregellas JR (2015). Nicotine reduces hippocampal hyperactivity in schizophrenia. Society for Neuroscience Meeting, Chicago, IL.
23. **Smucny J**, Keeley RJ, Hsu L, Liang X, Lu H, Stein EA (2015). Complex network analysis of the resting rat brain at 9.4T. NIH Summer Intern Poster Session, Washington, DC.
24. **Smucny J**, Olincy A, Eichman LS, Tregellas JR (2014). Neuronal effects of nicotine during auditory selective attention in schizophrenia. Society of Biological Psychiatry Annual Meeting, New York, NY.
25. **Smucny J**, Olincy A, Eichman LS, Tregellas JR (2014). Neuronal effects of nicotine during auditory selective attention in schizophrenia. UCAMC Junior Faculty Poster Session, Aurora, CO.
26. **Smucny J**, Wylie KP, Rojas DC, Stevens KE, Zheng L, Olincy A, Tregellas JR (2013). Translational evidence for $\alpha 7$ nicotinic receptor-mediated abnormal gating of beta and gamma oscillatory power in schizophrenia. Society of Biological Psychiatry Annual Meeting, San Francisco, CA.
27. Tregellas JR, **Smucny J**, Harris JG, Olincy A, Freedman R (2013). Intrinsic hippocampal activity as a biomarker for cognition and symptoms in schizophrenia. ANCP 52nd Annual Meeting, Hollywood, FL.
28. Tregellas JR, **Smucny J**, Eichman L, Rojas DC (2012). The effect of distracting noise on the neuronal mechanisms of attention in schizophrenia. ANCP 51st Annual Meeting, Hollywood, FL.
29. **Smucny J**, Eichman LS, Rojas DC, Tregellas JR (2012). fMRI of sustained attention in schizophrenia. UCAMC Junior Faculty Poster Session, Aurora, CO.
30. Cornier M-A, **Smucny J**, Eichman L, Bechtell JL, Tregellas JR (2012). Obesity proneness is associated with altered brain structure. Obesity Society 30th Annual Meeting, San Antonio, TX
31. **Smucny J**, Eichman LS, Rojas DC, Tregellas JR (2011). fMRI of sustained attention in schizophrenia. Annual Research Forum, UCAMC, Aurora, CO.
32. **Smucny J**, Eichman LS, Rojas DC, Tregellas JR (2011). fMRI of sustained attention in schizophrenia. Society for Neuroscience Meeting, Washington DC.
33. **Smucny J**, Eichman LS, Rojas DC, Tregellas JR (2011). fMRI of sustained attention in schizophrenia. UCAMC Junior Faculty Poster Session, Aurora, CO.
34. Veng L, Seager M, Koeplinger K, Ma L, McCampbell A, **Smucny J**, Puri V, Xu G, Burno M, Jones K, Graufelds V, Bickel D, Kuduk S, Beshore D, Hartman G, Bilodeau M, Seabrook G, Wittmann M, Ray J (2009). Allosteric potentiation of the M1 muscarinic receptor provides relief from cognitive deficits in two animal models of Alzheimer's disease. AD/PD 9th International Conference, Prague, Czech Republic.
35. **Smucny J**, Kinney G, Veng L (2007). Validation of the delayed non-match to place task as an assay for working memory in Alzheimer's drug discovery research. Mid-Atlantic Pharmacology Society Annual Meeting, Philadelphia, PA.
36. Zhao W, Breese R, Wolfe A, Majercak J, **Smucny J**, Seabrook G, Kinney G, Shughrue P (2007). Is an AMPA receptor the putative ADDL receptor? 2007 Merck West Point Basic Research Site Review, West Point, PA.

37. **Smucny J**, Pierre V, Chang J, Ploski J, Schafe GE (2006). Activity-regulated cytoskeletal-associated protein is required for memory consolidation of Pavlovian fear conditioning in the lateral amygdala. Society for Neuroscience Meeting, Atlanta, GA.
38. **Smucny J**, George SA (2004). Regulation of the GluR4 AMPA receptor subunit in deprivation-induced visuomotor plasticity in *Rana pipiens*. The 8th Annual NEURON conference, Wheaton College, MA.
39. **Smucny J**, Herlitze S (2002). FRET studies reveal the interaction between the intracellular domain of the P/Q-Type calcium channel alpha-1 subunit (Loop I-II) and the N- and C- termini of the G protein beta subunit. Case Western Reserve University Howard Hughes Summer Program for Undergraduate Research Poster Session, Cleveland, OH.