

## THOMAS D. MARCOTTE, PHD

Office Address: Center for Medicinal Cannabis Research  
HIV Neurobehavioral Research Program  
University of California, San Diego  
220 Dickinson Street, Suite B  
San Diego, CA 92103  
Email: [tmarcotte@ucsd.edu](mailto:tmarcotte@ucsd.edu)

<https://www.cmcrc.ucsd.edu/>

<https://hnrp.hivresearch.ucsd.edu/>

### EDUCATION

1994-1996 Post-doctoral Fellow in Neuropsychology, *UCSD School of Medicine*, La Jolla, CA  
1993-1994 Psychology Intern (APA approved), *West L.A. V.A. Medical Center*, Los Angeles, CA  
1990-1994 PhD in Clinical Psychology (APA approved), *California School of Professional Psychology*, Los Angeles, CA; MA in Clinical Psychology (1992)  
1983-1985 MA in Human Development and Family Relations, *University of Connecticut*, Storrs, CT  
1977-1982 BA in Psychology and Economics (Double Major), *University of California*, San Diego, CA

### ACADEMIC APPOINTMENTS

7/17-present *Professor-in-Residence, Department of Psychiatry, UCSD School of Medicine*  
10/08-present *Adjunct Professor, Department of Psychology, San Diego State University*  
7/07-6/17 *Associate Professor-in-Residence, Department of Psychiatry, UCSD School of Medicine*  
7/05-6/07 *Associate Adjunct Professor, Department of Psychiatry, UCSD School of Medicine*  
7/99-6/05 *Assistant Adjunct Professor, Department of Psychiatry, UCSD School of Medicine*  
2/96-6/99 *Assistant Project Scientist, Department of Psychiatry, UCSD School of Medicine*

### PROFESSIONAL APPOINTMENTS

10/15-present *Co-Director, UCSD Center for Medicinal Cannabis Research*  
7/16-present *Associate Director, T-32 Training Program in Addictions and NeuroAIDS*  
10/96-9/18 *Center Manager, HIV Neurobehavioral Research Center, UCSD School of Medicine*  
7/13-6/15 *Founding Director of Mental Health, UCSD Owen HIV Clinic*  
10/14-6/15 *Co-Director, HIV Psychiatry Residency Training Program (Owen Clinic)*  
9/01-8/15 *Co-Director, CNS HIV Anti-Retroviral Effects Research (CHARTER)*  
9/98-10/02 *Project Manager, California NeuroAIDS Tissue Network (CNTN), UCSD School of Medicine*  
9/94-9/96 *Coordinator, Neurobehavioral Core, HIV Neurobehavioral Research Center, UCSD School of Medicine*

### LICENSURE

Psychologist (No. 15428), State of California (1997-present)  
Marriage and Family Therapist (No. 25024), State of California (1989; inactive)

### CURRENT RESEARCH ACTIVITY

Principal Investigator: Effects of Cannabis/Alcohol on Driving Performance and Field Sobriety Tests (California Highway Patrol)  
Co-Director: Center for Medicinal Cannabis Research (State of California)  
Principal Investigator: A Randomized, Cross-Over Controlled Trial of Dronabinol and Vaporized Cannabis in Neuropathic Low Back Pain (R01 DA038634)  
Principal Investigator (multiple; Severson): A Brief iPad-Based Screening Measure for HIV-Associated Neurocognitive Disorders (R42 MH099964)  
Co-Investigator: HIV Neurobehavioral Research Center (NIMH P30 MH062512, Heaton)  
Co-Investigator: Age-Related Determinants of HAND: A 12 Year Follow-up of CHARTER Participants (R01 MH107345, Heaton/Letendre)  
Co-Investigator: Impact of HCV Therapy on CNS Outcomes (R01 DA039775, Bharti)

## PREVIOUS RESEARCH ACTIVITY

Principal Investigator (multiple; Grant): A Randomized, Controlled Trial of Cannabis in Healthy Volunteers Evaluating Simulated Driving, Field Performance Tests and Cannabinoid Levels (State of California)  
Co-Investigator: Translational Methamphetamine AIDS Research Center (P50 DA26306, Grant)  
Principal Investigator: A Novel Approach to Assessing Cognitive State During Real-World Tasks (R42 MH097303)  
Principal Investigator: Remediation of HAND: Initial efficacy, real-world relevance, and mechanisms (R34 MH097567)  
Principal Investigator: NeuroAIDS in India (NIMH RO1 MH78748)  
Principal Investigator: The Impact of Repeated Cannabis Treatments on Driving Abilities (University of California Center for Medicinal Cannabis Research)  
Principal Investigator: A Brief iPad-Based Screening Measure for HIV-Associated Neurocognitive Disorders (R41 MH099964)  
Principal Investigator: A Novel Approach to Assessing Cognitive State During Real-World Tasks (R41 MH097303)  
Principal Investigator: Novel Real-Time Assessments of Scanning Behavior During a Driving Task (University of California Academic Senate Committee on Research)  
Principal Investigator: Development of Simulations to Detect Impaired Drivers (NIMH R41 MH57593)  
Principal Investigator: Development of Simulations to Detect Impaired Drivers (NIMH R42 MH57593)  
Principal Investigator (multiple, Ghate): Workshop on 'NeuroAIDS in India: Current Findings and Future Directions' (IUSSTF 64-WS-2012)  
Co-Investigator: Long Term Effects of Chronic HIV Infection on the Developing Brain (RO1 MH094159, Achim)  
Co-Investigator, Co-Director: CNS HIV Antiretroviral Effects Research (CHARTER) (NIMH Contract, Grant)  
Co-Investigator: A Multi-Site Investigation into the Effect of HIV Clade on Neurocognitive Impairment (NIMH R01MH83552)  
Co-Investigator: HIV Neurobehavioral Research Center (NIMH P50 MH45294, Grant)  
Co-Investigator: Adolescent Neurocognitive Recovery Following Abstinence From Alcohol (R21AA17321)  
Co-Investigator: HIV Neuropathogenesis in a Cohort of Long-term Surviving Young Adults in Romania (NIMH R21)  
Co-Investigator: Neurobehavioral Effects of HIV and Host Genetics in China (NIMH R01 MH73433)  
Co-Investigator: Improving HIV/AIDS Care by Detecting and Treating Malaria in HIV Co-infected Individuals in Southern India (Tibotec, Bharti)  
Co-Investigator: NeuroAIDS: Effects of Methamphetamine (NIDA PO1 DA12065, Grant)  
Co-Investigator: Functional & Cognitive Impact of HIV in Spanish Speakers (NIMH R01 MH64907, Cherner)  
Co-Investigator: California NeuroAIDS Tissue Network (CNTN; NIMH R24 MH59745, Grant)

Co-Investigator: Functional Impact of Neurobehavioral Impairments in HIV (NIMH RO1 MH57226, Heaton)  
Co-Investigator: Development of Spanish Language Neuropsychological Norms (Suppl. to NIMH Center Grant P50 MH45294, Cherner)  
Co-Investigator: CANTAB Assessment of HIV Neurocognitive Disorder (subcontract to NIMH P50 MH4768, Grant)  
Consultant: Aging and HIV/AIDS: Cognitive Sequelae and Functional Consequences (VA Merit Review; West Los Angeles VA)  
Consultant: Development of Driver Training Simulations in Patients After Stroke (1R41NS057920)

#### EDITORIAL BOARD

Journal of the International Neuropsychological Society (2002-2004)  
Neuropsychology (2002-2007)  
Guest co-editor (D. Dawson), Special edition of Neuropsychological Rehabilitation (“Ecological validity and cognitive assessment”) (2016)

#### AD HOC JOURNAL REVIEWER

African Journal of AIDS Research  
AIDS  
AIDS and Behavior  
AIDS Care  
AIDS Research and Human Retroviruses  
American Journal of Drug and Alcohol Research  
American Journal of Geriatric Psychiatry  
Annals of Neurology  
Applied Neuropsychology  
Archives of Clinical Neuropsychology  
Archives of General Psychiatry  
Archives of Physical Medicine and Rehabilitation  
Assessment  
Biological Psychiatry  
Brain and Cognition  
Cannabis and Cannabinoid Research  
Expert Review of Neurotherapeutics  
Geriatric AIDS Psychiatry  
Human Factors  
International Psychogeriatric  
ISRN Neurology  
Journal of AIDS  
Journal of Alzheimer’s Disease  
Journal of Clinical and Experimental Neuropsychology  
Journal of Neurology  
Journal of Neurology, Neurosurgery, and Psychiatry  
Journal of Neurovirology  
Journal of the American Geriatrics Society  
Journal of the International Neuropsychological Society  
Neurology  
Neuropsychiatry, Neuropsychology, and Behavioral Neurology  
Neuropsychology  
Neuroscience

Pediatrics  
Social Science and Medicine  
The Clinical Neuropsychologist

#### GRANT REVIEWER

Federal Ministry for Education and Research (BMBF; Germany)  
Advanced Research Program - State of Texas  
Canadian Institutes of Health Research  
Fund for Scientific Research (Belgium)  
JPDN – EU Joint Programme – Neurodegenerative Disease Research  
National Center for Research Resources (NIH)  
National Institute for Health Research (UK)  
National Institute on Alcohol Abuse and Alcoholism (NIH; ZAA1 BB 02)  
Neurological Foundation of New Zealand  
Pilot Study Research Program (Medical College of Georgia)  
Puerto Rico Science, Technology & Research Trust  
Research Foundation Flanders – FWO (Belgium)  
UCLA AIDS Institute Seed Grants  
UCSD Clinical and Translational Research Institute  
The Netherlands Organisation for Health Research and Development (ZonMw)

#### PROFESSIONAL MEMBERSHIPS

American Psychological Association  
International Association of Chiefs of Police  
International Neuropsychological Society

#### OTHER PROFESSIONAL ACTIVITIES

Member, State of California Impaired Driving Task Force (Co-chair, Research, Data and Technology Committee) (2018-present)  
Member, State of California Office on Traffic Safety Impaired Driving Blueprint Roundtable (2017-18)  
UCSD Hillcrest Research Visioning Committee (HVRC), 2016-2017  
Visiting Scholar, University of Cape Town, 2015  
Scientific Program Committees:  
International Neuropsychological Society: Chair (2008); Member (2003, 2007, 2009)  
International Driving Symposium on Human Factors in Driver Assessment, Training, and Vehicle Design: Member (2007, 2009, 2011, 2013, 2015, 2017, 2019)  
Road Safety and Simulation International Conference: Member (2013)  
Symposium on New Directions in Driving Simulation Research: Co-chair (2004)  
Literature Reviewer, MIND Exchange Program on HIV-related cognitive disorders (2011/12)  
Judge: San Diego State University Student Research Symposium, 2011  
Member, Medical Expert Panel on driving safety, Federal Motor Carrier Safety Administration, U.S. Department of Transportation, 2009  
UCSD Academic Integrity Hearing Board, 2007-present  
Member, Stein Institute for Research on Aging (SIRA), UCSD, 2004-present  
Nominee, Early Career Award, National Academy of Neuropsychology, 2003  
Member, HIV Infection and Aging Workgroup, San Diego County Medical Society Commission on Aging, 2002.  
Item writer (neuropsychology questions), Examination for Professional Practice in Psychology (EPPP) Association of State and Provincial Psychology Boards and Professional Examination Service. 2002.  
Member, NINDS Data Safety Monitoring Board for study of PET and MRI Imaging of Persistent Lyme Encephalopathy, 2001–2004.

UCSD Committees

Department of Psychiatry Research Council: 2019-present  
Department of Psychiatry Technology Committee, Chair: 2014-2018  
Clinical Council, Dept. of Psychiatry, 2014-2015  
UCSD Health System Psychiatry Council, October 2014-June 2015  
Owen Clinic Continuous Quality Improvement, July 2013 to June 2015  
Clinical Service Chiefs Committee, Dept. of Psychiatry, 2013-14  
Productivity subcommittee, Dept. of Psychiatry Clinical Council, 2014  
Delivery System Reform Incentive Payment (DSRIP) working group, 2013

PUBLICATIONS

1. van Gorp, W., Hinkin, C., Satz, P., Miller, E., Drebing, C., Weisman, J., Holston, S., Marcotte, T., and Dixon, W. (1993). Subtypes of HIV-associated neuropsychological performance: A cluster analysis approach. *Neuropsychology*, 7(1), 62-72.
2. van Gorp, W.G., Miller, E.N., Marcotte, T.D., Dixon, W., Paz, D., Selnes, O., Wesch, J., Becker, J.T., Hinkin, C.H., Mitrushina, M., Satz, P., Weisman, J.D., and Stenquist, P.K. (1994). The relationship between age and cognitive impairment in HIV-1 infection: Findings from the Multicenter AIDS Cohort Study and a clinical cohort. *Neurology*, 44, 929-935.
3. van Gorp, W.G., Hinkin, C.H., Moore, L.H., Miller, E.N., Marcotte, T.D., Satz, P., Weisman, J. (1995). Ascertainment bias and neuropsychological performance in HIV-1 disease. *Neuropsychology*, 9, 206-210.
4. Hinkin, C.H., van Gorp, W.G., Mandelkern, M.A., Gee, M., Satz, P., Holston, S., Marcotte, T.D., Evans, G., Paz, D.K., Ropchan, J.R., Quinones, N., Khonsary, A., and Bland, W.H. (1995). Cerebral metabolic change in patients with AIDS: Report of a six month follow-up using Positron Emission Tomography. *Journal of Neuropsychiatry and Clinical Neurosciences*, 7, 180-187.
5. Heaton, R.K., Butters, N., Grant, I., White, D.A., Kirson, D., McCutchan, J.A., Taylor, M., Kelly, M.D., Wolfson, T., Velin, R., Marcotte, T.D., Atkinson, J.H., Thal, L.J., Hesselink, J.R., Jernigan, T.L., Wallace, M., and the HNRC Group. (1995). The HNRC 500 - Neuropsychology of HIV infection at different disease stages. *Journal of the International Neuropsychological Society*, 1, 231-251.
6. Heaton, R.K., Marcotte, T.D., White, D.A., Ross, D., Meredith, K., Taylor, M.J., Kaplan, R., and Grant, I. (1996). The nature and vocational significance of neuropsychological impairment associated with HIV infection. *The Clinical Neuropsychologist*, 10, 1-14.
7. Hinkin, C.H., van Gorp, W.G., Satz, P., Marcotte, T., Durvasula, R.S., Wood, S., Campbell, L., and Baluda, M.R. (1996). Actual versus self-reported cognitive dysfunction in HIV-1 infection: Memory-metamemory dissociations. *Journal of Clinical and Experimental Neuropsychology*, 18, 431-441.
8. Marcotte, T.D., van Gorp, W.G., Hinkin, C., and Osato, S. (1997). Validity of the Neurobehavioral Cognitive Status Exam utilizing a diverse clinical cohort. *Journal of Clinical and Experimental Neuropsychology*, 19, 3, 386-395.
9. Ellis, R.J., Deutsch, R., Heaton, R.K., Marcotte, T.D., McCutchan, J.A., Nelson, J.A., Abramson, I., Thal, L.J., Atkinson, J.H., Wallace, M.R., Grant, I., and the HNRC Group (1997). Neurocognitive impairment is an independent risk factor for death in HIV infection. *Archives of Neurology*, 54, 416-424.
10. Masliah, E., Heaton, R.K., Marcotte, T.D., Ellis, R.J., Wiley, C.A., Mallory, M., Achim, C.L., McCutchan, J.A., Nelson, J.A., Atkinson, J.H., Grant, I., and the HNRC Group. (1997). Dendritic injury is a pathologic substrate for HIV-related cognitive disorders. *Annals of Neurology*, 42, 963-72.
11. van Gorp, W.G., Marcotte, T.D., Sultzer, D., Hinkin, C., Mahler, M., and Cummings, J.L. (1999). Screening for dementia: comparison of three commonly used instruments. *Journal of Clinical and Experimental Neuropsychology*, 21(1), 29-38.

12. Plummer, D.J., Marcotte, T.D., Sample, P.A., Wolfson, T., Heaton, R.K., Grant, I., Freeman, W.R., and the HNRC Group. (1999). Visual field deficits are associated with neuropsychological impairment in HIV infection. *Investigative Ophthalmology and Visual Science*, 40, 435-42.
13. Abramson, I., Wolfson, T., Marcotte, T.D., Grant, I., and the HNRC Group. (1999). Extending the p-plot: heuristics for multiple testing. *Journal of the International Neuropsychological Society*, 5, 510-517
14. Marcotte, T.D., Heaton, R.K., Wolfson, T., Taylor, M.J., Alhassoon, O., Arfaa, K., Grant, I., and the HNRC Group. (1999). The impact of HIV-related neuropsychological dysfunction on driving behavior. *Journal of the International Neuropsychological Society*, 5, 579-592.
15. Everall, I.P., Heaton, R.K., Marcotte, T.D., Ellis, R.J., McCutchan, J.A., Atkinson, J.H., Grant, I., Mallory, M., Masliah, E., and the HNRC Group. (1999). Cortical synaptic density is reduced in mild to moderate human immunodeficiency virus neurocognitive disorder. *Brain Pathology*, 9, 209-217.
16. Heaton, R.K., Temkin, N., Dikmen, S., Avitable, N., Taylor, M.J., Marcotte, T.D., and Grant, I. (2001). Detecting change: A comparison of three neuropsychological methods, using normal and clinical samples. *Archives of Clinical Neuropsychology*, 16, 75-91
17. Heaton, R.K., and Marcotte, T.D. (2000). Clinical and neuropsychological tests and assessment techniques. In F. Boller, J. Grafman, and G. Rizzolatti (Eds.), *Handbook of Neuropsychology*. Amsterdam: Elsevier Science B.V.
18. Llorente, A.M., van Gorp, W.G., Stern, M.J., George, L., Satz, P., Marcotte, T.D., Calvillo, G.M., and Hinkin, C.H. (2001). Long-term effects of high-dose zidovudine treatment on neuropsychological performance in mildly symptomatic HIV-positive patients: Results of a randomized, double-blind, placebo-controlled investigation. *Journal of the International Neuropsychological Society*, 7(1), 27-32.
19. Heaton, R.K., Gladsjo, J.A., Palmer, B.W., Kuck, J., Marcotte, T.D., and Jeste, D.V. (2001). Stability and course of neuropsychological deficits in schizophrenia. *Archives of General Psychiatry*, 58, 24-32.
20. Deutsch, R., Ellis, R.J., McCutchan, J.A., Marcotte, T.D., Letendre, S., Grant, I. (2001). AIDS-associated mild neurocognitive impairment is delayed in the era of highly active antiretroviral therapy. *AIDS*, 15(14), 1989-1899.
21. Langford, T.D., Letendre, S.L., Marcotte, T.D., Ellis, R.J., McCutchan, J.A., Grant, I., Mallory, M.E., Hansen, L.A., Archibald, S., Jernigan, T., Masliah, E., and the HNRC Group. (2002). Severe, demyelinating leukoencephalopathy in AIDS patients on antiretroviral therapy. *AIDS*, 16(7), 1019-1029.
22. Cherner, M., Masliah, E., Ellis, R.J., Marcotte, T.D., Moore, D.J., Heaton, R.K., Grant, I., and the HNRC Group. (2003). Neurocognitive dysfunction predicts postmortem findings of HIV encephalitis. *Neurology*, 59 (10), 1563-1567.
23. Gonzalez, R., Heaton, R.K., Moore, D.J., Letendre, S., Ellis, R.J., Wolfson, T., Marcotte, T., Cherner, M., Rippeth, J., Grant, I., & the HNRC Group. (2003). Computerized reaction time battery versus a traditional neuropsychological battery: Detecting HIV-related impairments. *Journal of the International Neuropsychological Society*, 8, 64 - 71.
24. Rivera Mindt, M., Cherner, M., Marcotte, T.D., Moore, D.J., Bentley, H., Esquivel, M.M., Lopez, Y., Grant, I., Heaton, R.K., and the HNRC Group. (2003). The functional impact of HIV-associated neuropsychological impairment in Spanish-speaking adults: A pilot study. *Journal of Clinical and Experimental Neuropsychology*, 25 (1), 122-132.
25. Langford, D., Adame, A., Grigorian, A., Grant, I., McCutchan, J.A., Ellis, R.J., Marcotte, T.D., Masliah, E., and the HNRC Group. (2003). Patterns of selective neuronal damage in methamphetamine-user AIDS patients. *Journal of Acquired Immune Deficiency Syndromes*, 34, 467-474.
26. Marcotte, T.D., Deutsch, R., McCutchan, J.A., Moore, D.J., Letendre, S., Ellis, R.J., Wallace, M., Heaton, R.K., Grant, I., and the HNRC Group. (2003). Prediction of incident neurocognitive impairment by plasma HIV RNA and CD4 levels early after HIV seroconversion. *Archives of Neurology*, 60, 1406-1412.

27. Archibald, S.L., Masliah, E.M., Fennema-Notestine, C., Marcotte, T.D., Ellis, R.J., McCutchan, J.A., Heaton, R.K., Grant, I., Mallory, M. Miller, A., and Jernigan, T.L., (2004). Correlation of in vivo neuroimaging abnormalities with post-mortem human immunodeficiency virus encephalitis and dendritic loss. *Archives of Neurology*, 61(3), 369-176.
28. Rippeth, J.D., Heaton, R.K., Carey, C.L., Marcotte, T.D., Moore, D.J., Gonzalez, R., Wolfson, T., Grant, I., and the HNRC Group. (2004). Methamphetamine dependence increases risk of neuropsychological impairment in HIV infected persons. *Journal of the International Neuropsychological Society*, 10, 1-14.
29. Heaton, R. K., Marcotte, T. D., Rivera Mindt, M., Sadek, J., Moore, D. J., Bentley, H., McCutchan, J. A., Reicks, C., Grant , I., & the HNRC Group (2004). The impact of HIV-associated neuropsychological impairment on everyday functioning. *Journal of the International Neuropsychological Society*, 10, 317-331.
30. Woods, S.P. Conover, E., Rippeth, J.D., Carey, C.L., Gonzaelez, R., Marcotte, T.D., Heaton, R.K., Grant, I., and the HNRC Group. (2004). Qualitative aspects of verbal fluency in HIV-associated dementia: a deficit in rule-guided lexical-semantic search processes? *Neuropsychologia*, 42, 801-809.
31. Freeman, W.R., McCutchan, J.A., Arevalo, J.F., Wolfson, T., Marcotte, T.D., Heaton, R.K., Grant, I., and the HNRC Group. (2004). The relationship between AIDS retinal cotton wool spots and neuropsychological impairment in HIV-positive individuals in the pre-highly active antiretroviral therapy era. *Ocular Immunology and Inflammation*, 12(1), 25-33.
32. Carey, C.L., Woods, S.P., Gonzalez, R., Conover, E., Marcotte, T.D., Grant, I., Heaton, R.K., and the HNRC Group. (2004). Predictive validity of global deficit scores in detecting neuropsychological impairment in HIV infection. *Journal of Clinical and Experimental Neuropsychology*, 26(3), 307-319.
33. Woods, S.P., Rippeth, J.D., Frol, A.B., Levy, J.K., Ryan, E., Soukup, V.M., Hinkin, C.H., Lazzaretto, D., Cherner, M., Marcotte, T.D., Gelman, B.B., Morgello, S., Singer, E.J., Grant, I., & Heaton, R.K. (2004). Interrater reliability of clinical ratings and neurocognitive diagnoses in HIV. *Journal of Clinical and Experimental Neuropsychology*, 26(6), 759-778.
34. Marcotte, T.D., Wolfson, T., Rosenthal, T.J., Heaton, R.K., Gonzalez, R., Ellis, R.J., Grant, I., and the HNRC Group (2004). A multimodal assessment of driving performance in HIV infection. *Neurology*, 63, 1417-1422. PMID:15505158.
35. Carey, C. L., Woods, S. P., Rippeth, J. D., Gonzalez, R., Moore, D. J., Marcotte, T. D., Grant, I., Heaton, R.K., and the HNRC Group. (2004). Initial validation of a screening battery for the detection of HIV-associated cognitive impairment. *The Clinical Neuropsychologist*, 18(2), 234-248.
36. Strain, M.C., Letendre, S., Pillai, S., Russell, T., Ignacio, C.C., Gunthard, H.F., Good, B., Smith, D.M., Wolinsky, S.M., Furtado, M., Marquie-Beck, J., Durelle, J., Grant, I., Richman, D.D., Marcotte, T., McCutchan, J.A., Ellis, R.J., and Wong, J.K. (2005). Genetic composition of HIV-1 in CSF and blood without treatment and during failing antiretroviral therapy. *Journal of Virology*, 79, 1772-88.
37. Marcotte, T.D., Scott, J.S., Lazzaretto, D., Roberts, E., Bentley, H., Rosenthal, T.J., and the HNRC Group (2004). Long-term stability of standard deviation of lateral position in neurocognitively normal and impaired individuals. *Advances in Transportation Studies*, 57-65.
38. Woods, S. P., Scott, J. C., Conover, E., Marcotte, T. D., Heaton, R. K., Grant, I., and the HNRC Group. (2005). Test-retest reliability of component process variables within the Hopkins Verbal Learning Test-Revised. *Assessment*, 12(1), 96-100.
39. Marcotte, T.D., Lazzaretto, D., Scott, J.C., Roberts, E., Woods, S. P., Letendre, S., and the HNRC Group (2006). Visual attention deficits are associated with driving accidents in cognitively-impaired HIV-infected individuals. *Journal of Clinical and Experimental Neuropsychology*, 28, 1, 13-28. PMID: 16448973.
40. Jernigan, T. L., Gamst, A. C., Archibald, S. L., Fennema-Notestine, C., Mindt, M. R., Marcotte, T. D., Heaton, R.K., Ellis, R.J., Grant, I., and the HNRC Group. (2005). Effects of

- methamphetamine dependence and HIV infection on cerebral morphology. *American Journal of Psychiatry*, 162(8), 1461-1472.
41. Letendre, S. L., Cherner, M., Ellis, R. J., Marquie-Beck, J., Gragg, B., Marcotte, T., Heaton, R.K., McCutchan, J.A., Grant, I., and the HNRC Group. (2005). The effects of Hepatitis C, HIV, and methamphetamine dependence on neuropsychological performance: Biological correlates of disease. *AIDS*, 19 Suppl 3, S72-78.
  42. Shi, C., Yu, X., Wu, Z., Heaton, R.K., Jin, H., Marcotte, T.D., Sadek, J., Grant, I. (2005). Neuropsychological feasibility study among HIV/AIDS subjects in China. *Chinese Mental Health Journal*, 19, 5, 343-346.
  43. Moore, D.J., Masliah, E., Rippeth, J.D., Gonzalez, R., Carey, C.L., Cherner, M., Ellis, R.J., Achim, C.L., Marcotte, T.D., Heaton, R.K., Grant, I., and the HNRC Group (2006). Cortical and subcortical neurodegeneration is associated with HIV neurocognitive impairment. *AIDS*, 20, 879-887.
  44. Scott, J.C., Woods, S.P., Patterson, K.A., Morgan, E.E., Heaton, R.K., Grant, I., Marcotte, T.D., and the HNRC Group (2006). Recency effects in HIV-associated dementia are characterized by deficient encoding. *Neuropsychologia*, 44, 1336-1343.
  45. Pillai, S.K., Pond, S.L.K., Wrin, T., Strain, M.C., Ellis, R.J., Letendre, S., Smith, D.M., Gunthard, H.F., Grant, I., Marcotte, T.D., McCutchan, J.A., Richman, D.D., Wong, J.K. (2006). Genetic attributes of cerebrospinal fluid-derived HIV-env. *Brain*, 129, 1872-83.
  46. Jin, H., Atkinson, J.H., Yu, X., Heaton, R.K., Shi, C., Marcotte, T.D., Young, C., Sadek, J., Wu, Z., Grant, I., and the HNRC/China Collaboration Group. (2006). Depression and suicidality in HIV/AIDS in China. *Journal of Affective Disorders*, 94, 269-275.
  47. Cherner, M., Suarez, P., Lazzaretto, D., Fortuny, L.A., Mindt, M.R., Dawes, S., Marcotte, T., Grant, I., Heaton, R., and the HNRC Group. (2007). Demographically corrected norms for the Brief Visuospatial Memory Test – Revised and Hopkins Verbal Learning Test – Revised in monolingual Spanish speakers from the U.S.-Mexico border region. *Archives of Clinical Neuropsychology*, 22(3), 343-353.
  48. Ances, B.M., Letendre, S., Buzzell, M., Marquie-Beck, J., Lazzaretto, D., Marcotte, T.D., Grant, I., Ellis, R.J., & the HNRC Group (2006). Valproic Acid does not affect markers of human immunodeficiency virus disease progression. *Journal of Neurovirology*, 12(5), 403-406.
  49. Cysique, L.A., Deutsch, R., Atkinson, J.H., Young, C., Marcotte, T.D., Dawson, L., Grant, I., Heaton, R.K., and the HNRC Group. (2007). Incident major depression does not affect neuropsychological functioning in HIV-infected men. *Journal of the International Neuropsychological Society*, 13(1), 1-11.
  50. Cherner, M., Cysique, L., Heaton, R.K., Marcotte, T.D., Ellis, R.J., Masliah, E., Grant, I., & the HNRC Group. (2007). Neuropathologic confirmation of definitional criteria for human immunodeficiency virus-associated neurocognitive disorders. *Journal of Neurovirology*, 13(1), 23-28.
  51. Cysique, L.A., Jin, H., Franklin, D.R., Jr, Morgan, E.E., Shi, C., Yu, X., Wu, Z., Taylor, M.J., Marcotte, T.D., Letendre, S., Ake, C., Grant, I., Heaton, R.K. & the HNRC Group. (2007). Neurobehavioral effects of HIV-1 infection in China and the United States: A pilot study. *Journal of the International Neuropsychological Society*, 13(5), 781-790.
  52. Cherner, M., Suarez, P., Posada, C., Fortuny, L.A., Marcotte, T., Grant, I., Heaton, R., and the HNRC Group. (2007). Equivalency of Spanish language versions of the Trail Making Test Part B including or excluding “Ch”. *Clinical Neuropsychology*, 22(4), 662-625.
  53. Dawes, S., Suárez, P., Casey, C.Y., Cherner, M., Marcotte, T.D., Letendre, S., Grant, I., Heaton, R. K. and the HNRC group. (2008). Variable patterns of neuropsychological performance in HIV-1 infection. *Journal of Clinical and Experimental Neuropsychology*, 30(6), 613-626.
  54. Marcotte, T.D., Corey-Bloom, J., Rosenthal, T.J., Roberts, E., Lampinen, S., & Allen., R.W. (2008). The contribution of cognitive deficits and spasticity to driving performance in Multiple Sclerosis. *Archives of Physical Medicine and Rehabilitation*, 89(9), 1753-1758.

55. Wilsey, B., Marcotte, T., Tsodikov, A., Millman, J., Bentley, H., Gouaux, B., and Fishman, S. (2008). A randomized, placebo-controlled, crossover trial of cannabis cigarettes in neuropathic pain. *Journal of Pain*, 9(6), 506-521. PMID: 18403272.
56. Heaton, R.K., Cysique, L.A., Jin, H., Shi, C., Yu, X., Letendre, S., Franklin, D.R. Ake, C., Vigil, O., Atkinson, J.H., Marcotte, T.D., Grant, I., Wu, Z., and the HNRC Group. (2008). Neurobehavioral effects of HIV in rural China. *Journal of Neurovirology*, 1-14.
57. Cherner, M., Suarez, P., Casey, C., Deiss, R., Letendre, S., Marcotte, T., Vaida, F., Atkinson, J.H., Grant, I., Heaton, R.K., and the HNRC Group. (2010). Methamphetamine use parameters do not predict neuropsychological impairment in currently abstinent dependent adults. *Drug Abuse and Dependence*, 106(2-3), 154-63.
58. Dawes, S.E., Suarez, P., Vaida, F., Marcotte, T.D., Atkinson, J.H., Grant, I., Heaton, R., Cherner, M., & the HNRC Group. (2010). Demographic influences and suggested cut-scores for the Beck Depression Inventory in a non-clinical Spanish speaking population from the U.S.-Mexico border region. *International Journal of Culture and Mental Health*, 3 (1), 34-42.
59. Heaton, R.K., Franklin, D.R., Ellis, R.J., McCutchan, J.A., Letendre, S.L., Leblanc, S., Corkran, S.H., Duarte, N.A., Clifford, D.B., Woods, S.P., Collier, A.C., Marra, C.M., Morgello, S., Mindt, M.R., Taylor, M.J., Marcotte, T.D., Atkinson, J.H., Wolfson, T., Gelman, B.B., McArthur, J.C., Simpson, D.M., Abramson, I., Gamst, A., Fennema-Notestine, C., Jernigan, T.L., Wong, J., Grant, I. for the CHARTER Group. (2010). HIV-associated neurocognitive disorders before and during the era of combination antiretroviral therapy: differences in rates, nature, and predictors. *Journal of Neurovirology*, 17(1), 3016.
60. Foley JM, Wright MJ, Gooding AL, Ettenhofer M, Kim M, Choi M, Castellon SA, Sadek J, Heaton RK, van Gorp WG, Marcotte TD, Hinkin CH. (2010). Operationalization of the updated diagnostic algorithm for classifying HIV-related cognitive impairment and dementia. (2010). *International Psychogeriatrics*, 19, 1-9.
61. Heaton, R.K., Cysique, L.A., Jin, H., Shi, C., Yu, X., Letendre, S., Franklin, D.R., Ake, C., Vigil, O., Atkinson, J.H., Marcotte, T.D., Grant, I., Wu, Z., and the HNRC Group. (2010). Neurobehavioral effects of human immunodeficiency virus infection among former plasma donors in rural China. *Journal of Neurovirology*, 16(2), 185-8. PMID: 20443740.
62. Heaton, R.K., Clifford, D.B., Franklin, D.R. Jr, Woods, S.P., Ake, C., Vaida, F., Ellis, R.J., Letendre, S.L., Marcotte, T.D., Atkinson, J.H., Rivera-Mindt, M., Vigil, O.R., Taylor, M.J., Collier, A.C., Marra, C.M., Gelman, B.B., McArthur, J.C., Morgello, S., Simpson, D.M., McCutchan, J.A., Abramson, I., Gamst, A., Fennema-Notestine, C., Jernigan, T.L., Wong, J., Grant, I. and the CHARTER Group. (2010). HIV-associated neurocognitive disorders persist in the era of potent ante-retroviral therapy: CHARTER study. *Neurology*, 75(23), 2087-96.
63. Atkinson JH, Jin H, Shi C, Yu X, Duarte NA, Casey CY, Franklin DR Jr, Vigil O, Cysique L, Wolfson T, Riggs PK, Gupta S, Letendre S, Marcotte TD, Grant I, Wu Z, Heaton RK, and the HNRC Group. (2011). Psychiatric context of human immunodeficiency virus infection among former plasma donors in rural China. *Journal of Affective Disorders*, 130, 421-428. PMID:21094530. PMCID: 3307799.
64. Thames, A.D., Becker, B.W., Marcotte, T.D., Hines, L.J., Foley, J.M. Ramezani, A., Singer, E.J., Castellon, S.A., Heaton, R.K., and Hinkin, C.H. (2011). Depression, cognition, and self-appraisal of functional abilities in HIV: an examination of subjective appraisal versus objective performance. *The Clinical Neuropsychologist*, 25(2), 224-43. PMID:21331979
65. Scott, J. C., Woods, S. P., Vigil, O., Heaton, R.K., Schweinsburg, B. C., Ellis, R. J., Grant, I., & Marcotte, T.D. (2011). A neuropsychological investigation of multitasking in HIV infection: Implications for everyday functioning. *Neuropsychology*, 25, 511-519. PMID 21401259.
66. Heaton, R.K., Franklin, D.R., Ellis, R.J., McCutchan, J.A., Letendre, S.L., Leblanc, S., Corkran, S.H., Duarte, N.A., Clifford, D.B., Woods, S.P., Collier, A.C., Marra, C.M., Morgello, S., Mindt, M.R., Taylor, M.J., Marcotte, T.D., Atkinson, J.H., Wolfson, T., Gelman, B.B., McArthur, J.C., Simpson, D.M., Abramson, I., Gamst, A., Fennema-Notestine, C., Jernigan, T.L., Wong, J., Grant I., the CHARTER Group, and the HNRC Group. (2011) HIV-associated neurocognitive

- disorders before and during the era of combination antiretroviral therapy: differences in rates, nature, and predictors. *Journal of Neurovirology*, 17(1), 3-16. PMID:21174240.
67. Cheng, S., Klein, H., Bartsch, D.U., Kozak, I., Marcotte, T.D., and Freeman, W.R. (2011). Relationship between retinal nerve fiber layer thickness and driving ability in patients with human immunodeficiency virus infection. *Graefes Arch Clin Exp Ophthalmol*. 2011 Nov;249(11):1643-7. Epub 2011 Jul 6. PMID:21732109.
  68. Scott, J. C., Woods, S. P., Vigil, O., Heaton, R.K., Grant, I., Ellis, R. J., & Marcotte, T.D. (2011). Script generation of activities of daily living in HIV-associated neurocognitive disorders. *Journal of the International Neuropsychological Society*, 17(4), 740-745. PMID: 22882813. PMCID: PMC3419482.
  69. Kamat, R., Ghate, M., Gollan, T.H., Meyer, R., Vaida, F., Heaton, R.K., Letendre, S., Franklin, D., Alexander, T., Grant, I., Mehendale, S., Marcotte, T.D., and the HIV Neurobehavioral Research Program (HNRP) Group. (2012). Effects of Marathi-Hindi bilingualism on neuropsychological performance. *J Int Neuropsychol Soc*. 2012 Mar; 18(2):305-13. PMID: 22206622. PMCID: PMC3581332.
  70. Marcotte, T.D., Bekman, N.M., Meyer, R.A., and Brown, S.A. (2012). High-risk driving behaviors among adolescent binge drinkers. *Am J Drug Alcohol Abuse*. 2012 Jul; 38(4): 322-327. PMID: 22324748.
  71. Choi JY, Hightower GK, Wong JK, Heaton R, Woods S, Grant I, Marcotte TD, Ellis RJ, Letendre SL, Collier AC, Marra CM, Clifford DB, Gelman BB, McArthur JC, Morgello S, Simpson DM, McCutchan JA, Richman DD, Smith DM; Charter Group (2012). Genetic features of cerebrospinal fluid-derived subtype B HIV-1 tat. *J Neurovirol*, 18(2):81-90. PMID:22528397.
  72. Corey-Bloom, J., Wolfson, T., Gamst, A., Jin, S., Marcotte, T.D., Bentley, H., and Gouaux B. (2012). Smoked cannabis for spasticity in multiple sclerosis: a randomized, placebo-controlled trial. *CMAJ*. 184(10): 1143-50. PMID: 22586334. PMCID: PMC3394820.
  73. Kamat, R., Woods, S.P., Marcotte, T.D., Ellis, R.J., Grant, I. and the HIV Neurobehavioral Research Program (HNRP) Group. (2012). Implications of apathy for everyday functioning outcomes in persons living with HIV infection. *Archives of Clinical Neuropsychology*, 27(5) 520-531. PMID: 23245465.
  74. Foley, J., Gooding, A. L., Thames, A.D., Ettenhofer, M.L., Kim, M. S., Castellon, S. A., Marcotte, T.D., Sadek, J.R., Heaton, R. K., van Gorp, W.G., & Hinkin, C.H. (2013). Visuospatial and attentional abilities predict driving simulator performance among older HIV-infected adults. *American Journal of Alzheimer's disease and Other Dementias*. 28(2):185-94, PMID: 23314403.
  75. Joseph, J., Achim, C.L., Boivin, M., Brew, B.J., Clifford, D., Colosi, D.A., Ellis, R.J., Heaton, R.K., Gallo-Diop, A., Grant, I., Kanmogne, G.D., Kumar, M., Letendre, S., Marcotte, T.D., Nath, A., Pardo, C., Paul, R., Pulliam, L., Robertson, K., Royal III, W., Sacktor, N., Sithinamsuwan, P., Smith, D.M., Valcour, V., Wigdahl, B., Wood, C. (2013). Global neuroAIDS roundtable. *Journal of Neurovirology*, 19(1), 1-9. PMID: 23354550.
  76. Wilsey, B., Marcotte, T., Deutsch, R., Gouaux, B., Sakai, S., and Donaghe, H. (2013). Low-dose vaporized cannabis significantly improves neuropathic pain. *The Journal of Pain*, 14(2): 136-148. PMCID: PMC3566631
  77. Andrade, A.S.A, Deutsch, R., Celano, S., Duarte, N.A., Marcotte, T.D., Umlauf, A., Atkinson, J.H., McCutchan, J.A., Franklin, D., Alexander, T.J., McArthur, J., Marra, C., Grant, I., Collier, A.C. (2013). Relationships among neurocognitive status, medication adherence measured by Pharmacy Refill Records, and Virologic Suppression in HIV-infected Persons. *Journal of AIDS*, 62(3):282-92. PMID: 23202813; PMCID: PMC3906725.
  78. Sakamoto, M., Marcotte, T.D., Umlauf, A., Franklin, D., Heaton, R.K., Ellis, R.J., Letendre, S., Alexander, T., McCutchan, J.A., Morgan, E.E., Woods, S.P., Collier, A.C., Marra, C.M., Clifford, D.B., Gelman, B.B., McArthur, J.C., Morgello, S., Simpson, D., Grant, I., and the CHARTER Group. (2013). Concurrent classification accuracy of the HIV Dementia Scale for HIV-associated neurocognitive disorders in the CHARTER Cohort. *Journal of AIDS*. 62(1), 36-42. PMID: 23111573. PMCID: PMC3529802.

79. Marcotte, T.D., Deutsch, R., Michael, B.D., Franklin, D., Cookson, D.R., Bharti, A.R., Grant, I., Letendre, S.L. and CHARTER Group. (2013). A concise panel of biomarkers identifies neurocognitive functioning changes in HIV-Infected individuals. *J Neuroimmune Pharmacol*. 8(5):1123-35. PMID: 24101401. PMCID: PMC3874146.
80. Kamat, R., Morgan, E., Marcotte, T.D., Badlee, J., Maich, I., Cherner, M., de Almeida, S., de Pereira, A.P., Ribeiro, C.E., Barbosa, F., Atkinson, J.H., Ellis, R., and the HNRP Group. (2013). Implications of apathy and depression for everyday functioning in HIV/AIDS in Brazil. *J Affect Disord*, 150 (3), 1069-75. PMID: 23245465; PMCID: PMC3619015.
81. Zipursky, A.R., Gogolishvili, D., Rueda, S., Brunetta, J., Carvalhal, A., McCombe, J.A., Gill, M.J., Rachlis, A., Rosenes, R., Arbess, G., Marcotte, T., and Rourke, S.B. (2013). Evaluation of brief screening tools for neurocognitive impairment in HIV/AIDS: a systematic review of the literature. *AIDS*, 27(15): 2385-401.
82. Tilghman, M.W., Bhattacharya, J., Deshpande, S., Ghate, M., Espitia, S., Grant, I., Marcotte, T.D., Smith, D., Mehendale, S. (2014). Genetic attributes of blood-derived subtype-C HIV-1 tat and env in India and neurocognitive function. *J Med Virol*. 86(1):88-96. PMID: 24150902.
83. Morgan, E.E., Doyle, K.L., Minassian, A., Henry, B., Perry, W., Marcotte, T.D., Woods, S.P., Grant, I., and the Translational Methamphetamine AIDS Research Center (TMARC) Group. (2014). Elevated intraindividual variability in methamphetamine dependence is associated with poorer everyday functioning. *Psychiatry Research*. Jul 14. pii: S0165-1781(14)00583-6. [Epub ahead of print]. PMID: 25081313
84. Ene, L., Franklin, D.R., Burlacu, R., Luca, A.E., Blaglosov, A.G., Ellis, R.J., Alexander, T.J., Umlauf, A., Grant, I., Duiculescu, D.C., Achim, C.L., and Marcotte, T.D. (2014). Neurocognitive functioning in a Romanian cohort of young adults with parenterally-acquired HIV-infection during childhood. *J Neurovirol*, 20(5), 496-504. PMID: 25185868.
85. Kamat, R., Brown, G.G., Bolden, K., Fennema-Notestine, C., Archibald, S., Marcotte, T., Letendre, S., Ellis, R., Woods, S.P., Grant, I., and Heaton, R. (2014). Apathy is associated with white matter abnormalities in anterior, medial brain regions in persons with HIV infection. *Journal of Clinical and Experimental Neuropsychology*, 36(8), 854-66. PMID: 25275424.
86. Grant, I., Franklin, D.R. Jr., Deutsch, R., Woods, S.P., Vaida, F., Ellis, R.J., Letendre, S.L., Marcotte, T.D., Atkinson, J.H., Collier, A.C., Marra, C.M., Clifford, D.B., Gelman, B.B., McArthur, J.C., Morgello, S., Simpson, D.M., McCutchan, J.A., Abramson, I., Gamst, A., Fennema-Notestine, C., Smith, D.M., Heaton, R.K., and the CHARTER Group. (2014). Asymptomatic HIV-associated neurocognitive impairment increases risk for symptomatic decline, *Neurology*, 82(23), 2055-2062.
87. Heaton, R.K., Franklin, D.R., Deutsch, R., Letendre, S.L., Ellis, R.J., Casaletto, K., Marquine, M.J., Woods, S.P., Vaida, F., Atkinson, J.H., Marcotte, T.D., McCutchan, J.A., Collier, A.C., Marra, C.M., Clifford, D.B., Gelman, B.B., Sacktor, N., Morgello, S., Simpson, D.M., Abramson, I., Gamst, A., Fennema-Notestine, C., Smith, D.M., and Grant, I., for the CHARTER Group. (2014). Neurocognitive change in the era of HIV combination antiretroviral therapy: A longitudinal CHARTER study. *Clinical Infectious Diseases* [Epub ahead of print]. PMID: 25362201.
88. Kamat, R., Cattie, J., Marcotte, T.D., Woods, S.P., Franklin, D.R., Corkran, S.H., Ellis, R.J., Grant, I., Heaton, R.K., and the HIV Neurobehavioral Research Program (HNRP) Group. (2015). Incident major depressive episodes increase the severity and risk of apathy in HIV infection. *Journal of Affective Disorders*, 175C, 475-480. PMID: 25679203. PMCID: PMC4386921.
89. Ghate, M., Mehendale, S., Meyer, R., Umlauf, A., Deutsch, R., Kamat, R., Thakar, M., Risbud, A., Kulkarni, S., Sakamoto, M., Alexander, T., Franklin, D., Letendre, S., Heaton, R.K., Grant, I., and Marcotte, T.D. (2015). The effects of antiretroviral treatment initiation on cognition in HIV-infected individuals with advanced disease in Pune, India. *Journal of Neurovirology*, 21(4):391-8.
90. Dickens, A.M., Anthony, D.C., Deutsch, R., Mielke, M.M., Claridge, T.D.W., Grant, I., Cookson, D., Franklin, D., Letendre, S., Marcotte, T., McArthur, J.C., and Haughey, N. (2015). CSF metabolomics implicate bioenergetic adaptation as a neural mechanism regulating shifts in cognitive states of HIV-infected subjects. *AIDS*, 29(5), 559-569.

91. Ghate, M.V., Marcotte, T.D., Rangnekar, H.D., Meyer, R., Sakamoto, M., and Mehendale, S.M. (2015). Depressive symptoms in spouses of HIV infected individuals: A study of HIV uninfected caregivers in Pune, India. *Open Journal of Psychiatry*, 5, 1-6.
92. Wallace, M.S., Marcotte, T.D., Umlauf, A., Gouaux, B., and Atkinson, J.H. (2015). Efficacy of inhaled cannabis on painful diabetic neuropathy. *Journal of Pain*, 16(7), 616-627.
93. Hoenigl, M., Oliveira, M.F., Perez-Santiago, J., Zhan, Y., Morris, S., McCutchan, A.J., Finkelman, M., Marcotte, T.D., Ellis, R.J., and Gianella, S. (2016). (1→3)-β-D-Glucan Levels Correlate With Neurocognitive Functioning in HIV-Infected Persons on Suppressive Antiretroviral Therapy: A Cohort Study. *Medicine (Baltimore)*, 95(11), e3162.
94. Wilsey, B., Marcotte, T.D., Deutsch, R., Zhao, H., Prasad, H., Phan, A. (2016). An exploratory human laboratory experiment evaluating vaporized cannabis in the treatment of neuropathic pain from spinal cord injury and disease. (2016). *Journal of Pain* [Epub ahead of print], PMID 27286745.
95. Eden, S., Marcotte, T.D., Heaton, R.K., Nilsson, S., Zetterberg, H., Fuchs, D., Franklin, D., Price, R.W., Grant, I., Letendre, S.L., and Gisslen, M. (2016). Increased intrathecal immune activation in virally suppressed HIV-1 infected patients with neurocognitive impairment. *PLoS One*, 11(6): e0157160. PMID: 27295036; PMCID: PMC4905676.
96. Wilsey, B.L., Deutsch, R., Samara, E., Marcotte, T.D., Huestis, M., Le, D. (2016). A preliminary evaluation of the relationship of cannabinoid blood concentrations with the analgesic response to vaporized cannabis. *J Pain Res*, 9, 587-598.
97. Ene, L., Marcotte, T.D., Umlauf, A., Grancea, C., Temereanca, A., Bharti, A., Achim, C.L., Letendre, S., Ruta, S.M. (2016). Latent toxoplasmosis is associated with neurocognitive impairment in young adults with and without chronic HIV infection. *J Neuroimmunol*, Oct 15;299:1-7. PMID: 27725106; PMCID: PMC5152755.
98. Kamat, R., McCutchan, A., Kumarasamy, N., Marcotte, T.D., Umlauf, A., Selvamuthu, P., Meyer, R., Letendre, S., Heaton, R., Bharti, A.R. Neurocognitive functioning among HIV-positive adults in southern India. *J Neurovirol*. 2017 Oct;23(5):750-755. PMID: 28681344.
99. Ubaida-Mohien, C., Lamberty, B., Dickens, A.M., Mielke, M.M., Marcotte, T., Sacktor, N., Grant, I., Letendre, S., Franklin, D., Cibrowski, P., Tharakan, R., McArthur, J.C., Fox, H., and Haughey, N.J. (2017). Modifications in acute phase and complement systems predict shifts in cognitive status of HIV-infected patients. *AIDS*, 31(10), 1365-1378.
100. Burlacu, RI, Umlauf, A., Luca, A., Gianella, S., Radoi, R., Ruta, S.M., Marcotte, T.D., Ene, L., Achim, C.L. (2018). Sex-based differences in neurocognitive functioning in HIV-infected young adults. *AIDS*. 2018 Jan 14;32(2):217-225. PMID: 29112063.
101. Jumare, J., El-Kamary, S.S., Magder, L., Hungerford, L., Umlauf, A., Franklin, D., Ghate, M., Abimiku, A., Charurat, M., Letendre, S., Ellis, R.J., Mehendale, S., Blattner, W.A., Royal, W. 3rd, Marcotte, T.D., Heaton, R.K., Grant, I., and McCutchan, J.A. (2019). Brief report: Body mass index and cognitive function among HIV-1 infected individuals in China, India, and Nigeria. *J Acquir Immune Defic Syndr*, 80(2): e30-e35.
102. Sobolesky, P.M., Smith, B.E., Hubbard, J.A., Stone, J., Marcotte, T.D., Grelotti DJ, Grant I, and Fitzgerald RL. (2019). Validation of a liquid chromatography-tandem mass spectrometry method for analyzing cannabinoids in oral fluid. *Clin Chim Acta*, 491:30-38.
103. Rupp, G., Berka, C., Meghdadi, A.H., Karić, M.S., Casillas, M., Smith, S., Rosenthal, T., McShea, K., Sones, E., and Marcotte, T.D. (2019). EEG-based neurocognitive metrics may predict simulated and on-road driving performance in older drivers. *Front Hum Neurosci*, 12:532.
104. Tyree, G.A., Sarkar, R., Bellows, B.K., Ellis, R.J., Atkinson, J.H., Marcotte, T.D., Wallace, M.S., Grant, I., Shi, Y., Murphy, J.D., and Grelotti, D.J. (2019). A cost-effectiveness model for adjunctive smoked cannabis in the treatment of chronic neuropathic pain. *Cannabis Cannabinoid Res*, 4(1): 62-72.
105. Burlacu, R., Umlauf, A., Marcotte, T.D., Soontornniyomkij, B., Diaconu, C.C., Bulacu-Talnariu, A., Temereanca, A., Ruta, S.M., Letendre, S., Ene, L., Achim, C.L. (2019). Plasma CXCL10 correlates with HAND in HIV-infected women. *J Neurovirol*, Aug 14. Epub ahead of print.

106. Dastgheyb, R.M., Sacktor, N., Franklin, D., Letendre, S., Marcotte, T., Heaton, R., Grant, I., McArthur, J.C., Rubin, L.H., and Haughey, N.J. (2019). Cognitive Trajectory Phenotypes in Human Immunodeficiency Virus-Infected Patients. *J Acquir Immune Defic Syndr*, 82 (1), 61-70.
107. Khuder, S.S., Chen, S., Letendre, S., Marcotte, T., Grant, I., Franklin, D., Rubin, L.H., Margolick, J.B., Jacobson, L.P., Sacktor, N., D'Souza, G., Stosor, V., Lake, J.E., Rapocciolo, G., McArthur, J.C., Dickens, A.M., and Haughey, N.J. (2019). Impaired insulin sensitivity is associated with worsening cognition in HIV-infected patients. *Neurology*, 92(12), e1344-e1353.
108. Alakkas, A., Ellis, R.J., Watson, C.W., Umlauf, A., Heaton, R.K., Letendre, S., Collier, A., Marra, C., Clifford, D.B., Gelman, B., Sacktor, N., Morgello, S., Simpson, D., McCutchan, J.A., Kallianpur, A., Gianella, S., Marcotte, T., Grant, I., Fennema-Notestine, C., and the CHARTER Group. (2019). White matter damage, neuroinflammation, and neuronal integrity in HAND. *J Neurovirol*, 25(1), 32-41.
109. Hubbard, J., Sobolesky, P., Sollip, K., Hoffman, M., Stone, J., Huestis, M., Grelotti, D., Grant, I., Marcotte, T., and Fitzgerald, R. (In press). Validation of a liquid chromatography tandem mass spectrometry (LC-MS/MS) method to detect cannabinoids in whole blood and breath. *Clin Chem Lab Med*.
110. Watson, C.W-M., Paolillo, E.W., Morgan, E.E., Umlauf, A., Sundermann, E.S., Ellis, R.J., Letendre, S., Marcotte, T.D., Heaton, R.K, & Grant, I. (*in press*) Cannabis Exposure is Associated with a Lower Likelihood of Neurocognitive Impairment in People Living with HIV. *Journal of Acquired Immune Deficiency Syndromes (JAIDS)*.
111. Temereanca, A., Ene, L., Rosca, A., Diaconu, C., Luca, A., Burlacu, R., Radoi, R., Bulacu-Talnariu, A., Marcotte, T., Achim, C., Ruta, S. (*in press*). Neurocognitive impairment in the cART era in a Romanian cohort of young adults with chronic HIV infection. *AIDS Res Hum Retroviruses*.

## REVIEW ARTICLES

1. Grant, I., Heaton, R.K., and Marcotte, T.D. (1997). Evaluating the neurocognitive complications of SLE: Lessons from HIV Disease. *Annals of the New York Academy of Sciences*, 823, 18-43.
2. Grant, I., Marcotte, T.D., Heaton, R.K., and the HNRC Group. (1999). Neurocognitive complications of HIV disease. *Psychological Science*, 10(3), 191-195.
3. Marcotte, T.D. and Scott, J.C. (2004). The assessment of driving abilities. *Advances in Transportation Studies*, 79-90.
4. Marcotte, T.D. (2008). Cognitive disorders in the era of combination HIV antiviral treatment. *Focus*, 23(3), 1-5.
5. Ghate, M. & Marcotte, T.D. (2011). Neuropsychology of HIV in India. *INSNET - International Neuropsychological Society International Liaison Committee Bulletin*.
6. Sakamoto, M. & Marcotte, T.D. (2013). HIV-associated neurocognitive disorders and everyday functioning. Invited article for *APA Psychology and AIDS Exchange Newsletter*.
7. Wilsey, B., Atkinson, J.H., Marcotte, T.D. and Grant, I. (2015). The medicinal cannabis treatment agreement: Providing information to chronic pain patients via a written document. *Clinical Journal of Pain*, 31(12), 1087-1096. PMID: 25370134
8. Wilsey, B., Deutsch, R., and Marcotte, T.D. (2016). Maintenance of blinding in clinical trials and the implications for studying analgesia using cannabinoids. *Cannabis and Cannabinoid Research*, 1(1), 139-148.
9. Dawson, D.R., Marcotte, T.D. (2017). Special issue on ecological validity and cognitive assessment. *Neuropsychol Rehabil*. 2017 Jul;27(5):599-602. PMID: 28480821.

## BOOKS AND CHAPTERS

1. Kelly, M.D., Grant, I., Heaton, R.K., and Marcotte, T.D. (1996). Neuropsychological findings in HIV infection and AIDS. . In I. Grant and K.M. Adams, eds., *Neuropsychological Assessment of Neuropsychiatric Disorders - 2nd edition*. New York: Oxford University Press.
2. Marcotte, T.D., Grant, I., Atkinson, J.H., and Heaton, R.K. (2001). Neurobehavioral complications of HIV infection. In R.E. Tarter, D.H. van Thiel, and K.L. Edwards (Eds.), *Medical neuropsychology: the impact of disease on behavior*. New York: Plenum Press.
3. Marcotte, T.D., Heaton, R.K., and Albert. S. (2005). Everyday impact of HIV-associated neurocognitive disorders. In H.E. Gendelman, I. Grant, S. Swindells, I. Everall and S.A. Lipton (Eds.), *The Neurology of AIDS, 2nd edition*. New York: Chapman and Hall.
4. Marcotte, T.D. & Scott, J.C. Evolution of neuropsychological issues in HIV-1 infection during the HAART era. (2006). In K. Goodkin, P. Shapshak, and A. Verma (Eds.). *The Spectrum of Neuro-AIDS Disorders: Pathophysiology, Diagnosis, and Treatment*. Herndon, VA: ASM Press.
5. Marcotte, T.D. & Scott, J.C. (2009). Neuropsychological performance and the assessment of driving behavior. In I. Grant & K. Adams, (Eds.). *Neuropsychological Assessment of Neuropsychiatric and Neuromedical Disorders, 3rd Edition*.
6. Marcotte, T.D. and Grant, I., Editors (2009). *Neuropsychology of Everyday Functioning*. New York: Guilford Press.
7. Marcotte, T.D., Scott, J.C., Kamat, R., and Heaton, R.K. (2009). Neuropsychology and the prediction of everyday functioning. In Marcotte, T.D. & Grant, I. (Eds.). *The Neuropsychology of Everyday Functioning*. New York: Guilford Press.
8. Kaplan, R.M., Mausbach, B.T., Marcotte, T.D., and Patterson, T.L (2009). The impact of cognitive impairments on health-related quality of life. In Marcotte, T.D. & Grant, I. (Eds.). *Neuropsychology of Everyday Functioning*. New York: Guilford Press.
9. Scott, J.C. and Marcotte, T.D. Everyday impact of HIV-associated neurocognitive disorders. In Marcotte, T.D. & Grant, I. (Eds.). (2009). *Neuropsychology of Everyday Functioning*. New York: Guilford Press.
10. Marcotte, T.D. and Grant, I. Future directions in the assessment of everyday functioning. In Marcotte, T.D. & Grant, I. (Eds.). (2009). *Neuropsychology of Everyday Functioning*. New York: Guilford Press.
11. Marcotte, T. D., Scott, J. C., Hinkin, C. H., & Heaton, R. K. (2012). Everyday impact of HIV-associated neurocognitive disorders. In H. E. Gendelman, I. Grant, I. Everall, H. S. Fox, H. A. Gelbard, S. A. Lipton & S. Swindells (Eds.), *The Neurology of AIDS* (3rd ed., pp. 1052-1065): New York.

## INVITED PRESENTATIONS (Unpublished; since 2016)

### **Medicinal Cannabis**

1. Cannabis Across the Life Course: What do we Know and What do we Need to Know. UCSD Clinical and Translation Research Institute. April 13, 2016.
2. Addiction Science Conference: The Science and Policy of Cannabis. University of Missouri, St. Louis - Missouri Institute of Mental Health. St. Louis, MO, April 27, 2018.
3. The Legalization of Marijuana and Its Effects on the Safe Mobility of Older Persons. National Academies of Sciences, Engineering, and Medicine: Transportation Research Board. Committee on Safe Mobility of Older Persons, Mid-Year Meeting. Woods Hole, MA. June 5-6, 2018.
4. State of Cannabis. Long Beach, CA. September 26, 2018.
5. American Medical Marijuana Physicians Association, Orlando, FL. October 12, 2018.

6. Evaluating the Therapeutic Potential of Cannabinoids: How to Conduct Research within the Current Regulatory Framework. National Center for Complementary and Integrative Health (NIH). Ft. Lauderdale, FL. December 8, 2018.
7. Inaugural Symposium on Cannabis and People Living with HIV: At the Crossroads Between Neuropsychology and Inflammation. McGill University, Montreal, Quebec, CA. April 5, 2019.
8. 18<sup>th</sup> Annual International Conference on the Science of Botanicals. National Center for Natural Products Research, University of Mississippi. Oxford, MS, April 10, 2019.
9. Altered States of Cannabis Regulation: Informing Policy with Science. Center on Addiction & Behavior Change, Duke University, Durham, NC. April 17, 2019.
10. Medicinal Cannabis: Promises, Problems, and Paths Forward. U.S. House of Representatives briefing. Washington, DC. May 30, 2019.
11. Innovations in the Science of Cannabis Conference, DeGroot Centre for Medicinal Cannabis Research, McMaster University, Hamilton, Ontario, CA. June 1, 2019.
12. University of California Office of the President (UCOP) Systemwide IRB Directors Meeting. Oakland, CA. June 12, 2019.

### **Cannabis, Cognition and Driving**

1. San Diego Marijuana Awareness Training: The Myths, Facts, and What we Should All know about Marijuana Use and Abuse. San Diego Police and Sheriff Departments. San Diego, CA. September 23, 2016.
2. California Association of Toxicologists, Annual Meeting, San Diego, CA April 27, 2017.
3. California Driving Under the Influence of Drugs Roundtable (DUID Blueprint Committee). Santa Ana, CA. May 15, 2017.
4. American Psychiatric Association, San Diego, CA. May 23, 2017.
5. Bill C-46: Modifications to the Transportation Provisions of the Criminal Code. Standing Committee on Justice and Human Rights. Canadian House of Commons. Ottawa, CA. September 25, 2017.
6. American Association for Clinical Chemistry. San Diego, CA. September 27, 2017.
7. Western States Marijuana Summit. San Diego, CA. November 6, 2017.
8. California Department of Transportation Tort Law Workshop, Emeryville, CA, May 3, 2018.
9. California Association of Toxicologists, Annual Meeting, Rohnert Park, CA May 7, 2018.
10. California Legislature Briefing, Sacramento, CA, May 15, 2018.
11. UCLA Interdisciplinary Cannabis Symposium, Los Angeles, CA. May 18, 2018.
12. 30<sup>th</sup> Annual Western States Regional Conference on Physicians' Well-Being. Riverside, CA. May 23, 2018.
13. California State Highway Safety Program (SHSP) Alcohol and Drug Impairment Challenge Area Meeting, Sacramento, CA, May 25, 2018.
14. California Department of Motor Vehicles Research and Development Group, Sacramento, CA, May 25, 2018.
15. California Impaired Driving Task Force. McCellan Park, CA. September 27, 2018.
16. Ideas to Impact: A Dialogue to Address Drug-Impaired Driving. National Highway Traffic Safety Administration/California Highway Patrol. West Sacramento, CA. December 6, 2018.
17. Association for Driver Rehabilitation Specialists. San Diego, CA. February 22, 2019.
18. California Department of Motor Vehicles Driver Safety Hearing Officer Training Workshop. Anaheim, CA. April 3, 2019.
19. California Department of Motor Vehicles Driver Safety Hearing Officer Training Workshop. Concord, CA. May 1, 2019.
20. California Impaired Driving Task Force. Sacramento, CA. June 5, 2019.
21. Cannabis: It's Complicated. National Safety Council. Itasca, IL. June 25, 2019.

Media (Cannabis-impaired driving)

**2019**

Orange County Register: Three years into legal cannabis and California still doesn't have a reliable test for driving while high

<https://www.ocregister.com/2019/05/31/three-years-into-legal-cannabis-and-california-still-doesnt-have-a-reliable-test-for-driving-while-high/>

Kaiser Health News: Too High To Drive: States Grapple With Setting Limits On Weed Use Behind Wheel

<https://khn.org/news/too-high-to-drive-states-grapple-with-setting-limits-on-weed-use-behind-wheel/>

Pain News Network: Survey: Most Medical Cannabis Users Drive While High

<https://www.painnewsnetwork.org/stories/2019/1/9/survey-1-in-5-medical-marijuana-users-drive-while-very-high>

Daily Mail: How high is too high to drive? Weed was found in 40% of car victims in 2016 - but it is a LOT more complicated to test for than alcohol

<https://www.dailymail.co.uk/health/article-6559091/How-high-high-drive-challenges-facing-legal-marijuana-limits.html>

NBC News: Smoking weed: When is someone too high to drive?

<https://www.nbcnews.com/health/health-news/smoking-weed-when-someone-too-high-drive-n954211>

**2018**

City Watch LA: Betty Yee to California Cannabis Industry: Grow Up and Deal with Stoned Drivers

<https://citywatchla.com/index.php/2016-01-01-13-17-00/los-angeles/16074-betty-yee-to-california-cannabis-industry-grow-up-and-deal-with-stoned-drivers>

NBC 7 San Diego: New Breathalyzer May Detect Pot Impairment

<https://www.nbcsandiego.com/news/local/New-Breathalyzer-Could-be-Used-to-Detect-Pot-in-System-490311621.html>

NPR: The Pot Breathalyzer Is Here. Maybe

<https://www.npr.org/2018/08/04/634992695/the-pot-breathalyzer-is-here-maybe>

KQED: California Will Pay You to Get High for Driving Study

<https://www.kqed.org/science/1927766/state-funded-marijuana-study-could-lead-to-better-policing-on-roads>

KUSI: UCSD researchers studying effects of cannabis use on drivers

<https://www.kusi.com/ucsd-researchers-studying-effects-of-cannabis-use-on-drivers/>

High Times: California College Paying People to Smoke Weed and Virtually Drive for Study

<https://hightimes.com/news/california-college-paying-people-smoke-weed-virtually-drive-study/>

Newsweek: How Soon is it Safe to Drive After Smoking Cannabis? California Study Aims to Find Out

<https://www.newsweek.com/how-soon-it-safe-drive-after-smoking-cannabis-california-study-aims-find-out-1025556>

ABC 10 News: UC San Diego simulator tests cannabis users on the road  
<https://www.10news.com/news/uc-san-diego-simulator-tests-cannabis-users-on-the-road>

Voice of San Diego Podcast: The Affects of Marijuana on Driving  
[http://podcast.voiceofsandiego.org/the-mayor-makes-his-vacation-rental-move?\\_ga=2.134819633.1301222976.1529516192-498298005.1529516192](http://podcast.voiceofsandiego.org/the-mayor-makes-his-vacation-rental-move?_ga=2.134819633.1301222976.1529516192-498298005.1529516192)

Sacramento Bee: Recreational marijuana is legal in California, but stoned driving is still hard to detect  
<https://www.sacbee.com/news/california/california-weed/article195694294.html>

KPCC: Swab tests and judgment calls: How police are checking for pot DUIs  
<https://www.scpr.org/news/2018/01/19/79941/how-do-police-enforce-calif-s-stoned-driving-law-a/>

## **2017**

CBS News: With Pot Soon Legal, CHP Warns: Drive High, Get A DUI  
<https://losangeles.cbslocal.com/2017/12/27/chp-warns-drive-high-get-a-dui/>

CBS This Morning: Simulator aims to help police test whether a person is too high to drive  
<https://www.cbsnews.com/news/california-recreational-weed-driving-high-ucsd-test/>

San Diego Union Tribune: Don't feast on edible marijuana until you read this  
<https://www.sandiegouniontribune.com/news/marijuana/sd-me-edible-marijuana-20171116-story.html>

Westways Magazine: Higher Education  
[https://www.cmcr.ucsd.edu/images/PDFs/Westways\\_Higher\\_Education.pdf](https://www.cmcr.ucsd.edu/images/PDFs/Westways_Higher_Education.pdf)

KPBS: Driving Stoned: San Diego Scientists Try To Find DUI Limit For Marijuana  
<https://www.kpbs.org/news/2017/jun/07/driving-stoned-how-do-we-quantify-it/>

KPBS: **Driving Stoned: How Much Is Too Much?**  
<https://www.kpbs.org/news/2017/jun/05/drugged-driving-part-one/>

The Guardian (UCSD): UCSD Researchers Test Effects of Marijuana on Driving, Pain with Prop 64 Funding  
<http://ucsdguardian.org/2017/05/29/ucsd-researchers-test-effects-of-marijuana-on-driving-pain-with-prop-64-funding/>

CBS 5 San Francisco: Buzz Kill: California Police Train To Detect Drugged Drivers  
<https://sanfrancisco.cbslocal.com/2017/05/10/buzz-kill-california-police-work-to-detect-drugged-drivers/>

The Marshall Project: When Are You Too Stoned to Drive?  
<https://www.themarshallproject.org/2017/01/16/when-are-you-too-stoned-to-drive>

Radio Health Journal: Stoned Driving: How can police tell?  
<https://radiohealthjournal.org/2017/01/15/stoned-driving/>

## **2016**

WBUR Massachusetts: No Widely Accepted Way To Test Marijuana Impairment In Drivers  
<https://www.wbur.org/morningedition/2016/12/13/marijuana-driver-impairment-testing>

CBS 8: Why is it so hard to prove people are driving high?

<https://www.cbs8.com/article/news/politics/why-is-it-so-hard-to-prove-people-are-driving-high/509-92646f0b-9190-4eb5-8882-54c8a2362763>

Greenfield Recorder: High on the highways?

<https://www.recorder.com/High-on-the-highways-5320675>

NPR Morning Edition: Why Drunk Driving Laws Don't Translate To Driving While Stoned

<https://www.npr.org/2016/09/06/492775605/why-drunk-driving-laws-don-t-translate-to-driving-while-stoned>

AirTalk KPCC: How can you tell if a driver is stoned?

<https://www.scpr.org/programs/airtalk/2016/07/14/50472/how-can-you-tell-if-a-driver-is-stoned/>

NBC 7 San Diego: UCSD to Study Effects of Marijuana on Driving

<https://www.nbcsandiego.com/news/local/UCSD-to-Study-Effects-of-Marijuana-on-Driving-379464371.html>

KPCC: Car crashes involving marijuana doubled in Washington state, AAA says

<https://www.scpr.org/programs/take-two/2016/05/11/48736/car-crashes-involving-marijuana-doubled-in-washing/>

The Guardian (UCSD): State Recruits UCSD to Develop Marijuana Sobriety Test

<http://ucsdguardian.org/2016/04/28/city-recruits-ucsd-to-develop-marijuana-sobriety-test/>

KPBS: UC San Diego Scientists Working On Roadside Test For Stoned Drivers

<https://www.kpbs.org/news/2016/apr/19/uc-san-diego-scientists-working-roadside-test-ston/>

San Diego Union Tribune: State asks UCSD to find ways to detect stoned drivers

<https://www.sandiegouniontribune.com/news/science/sdut-ucsd-marijuana-sobrietytest-2016apr17-htmistory.html>