

# Andrew Jeremiah Levine, Ph.D., ABPP-CN

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## EDUCATION

**Ph.D.**            **California School of Professional Psychology, Fresno**  
Sept., 2002      Clinical Neuropsychology Track  
                      APA - Accredited Clinical Psychology Program

**B.S.**            **Binghamton University**  
May, 1995      B.S. *Cum Laude*  
                      Major: Psychobiology

## LICENSING AND CERTIFICATIONS

Clinical Psychologist License (California) - PSY20320  
American Board of Professional Psychology - Clinical Neuropsychology – 6805  
Qualified Medical Evaluator - California Department of Workers' Compensation

## PROFESSIONAL EMPLOYMENT AND TRAINING

9/11-present      **Adjunct Professor (Assistant 9/11-6/13, Associate 7/13-7/16)**  
                      **Clinical Professor (Associate 7/16-present)**  
                      UCLA – Department of Neurology: Lead a multidisciplinary research program focused on identifying genetic and epigenetic risk factors and biomarkers for HIV-associated neurocognitive disorders. Supervise externs and postdocs on clinical neuropsychological evaluations

8/17-present      **Independent Medico-Legal Neuropsychology Practice:** Includes evaluation of former NFL players as part of the Baseline Assessment Program and Monetary Award Fund, QME evaluations, and expert testimony

5/07-present      **Clinical Neuropsychology Consultant,** Health Psychology Associates, Long Beach, CA: Conduct clinical and med-legal psychological, neuropsychological, and psychoeducational evaluations of patients and clients aged 14-years and higher

- 7/05-8/11                    **Assistant Researcher**, UCLA – Department of Neurology - National Neurological AIDS Bank, Los Angeles, CA: Responsible for overseeing and initiating research projects, manuscript and grant writing. Supervised psychometrists and research assistants. Mentored graduate students
- 8/05-5/07                    **Clinical Neuropsychologist**, Pacific Neuroscience Medical Group, Oxnard, CA: Performed neuropsychological evaluations of patients with a variety of neurodegenerative diseases. Provided feedback for patients and families. Conducted neurocognitive assessment with clinical trial participants.
- 9/02-6/05                    **Neuropsychology Postdoctoral Fellowship**, UCLA School of Medicine, CA: NIMH-funded fellowship focusing on the study of neuropsychological aspects of HIV-1 infection. Training included clinical assessment of outpatients and didactic curriculum at the UCLA Neuropsychiatric Institute.
- 9/01-8/02                    **Predoctoral Internship**, MCP Hahnemann University Hospital, Philadelphia, PA: APA (Division 40) accredited internship in clinical psychology with major emphasis on clinical neuropsychology.
- 7/00-6/01                    **Senior Research Associate II**, Veterans Affairs Medical Center-San Francisco, CA: Performed neuropsychological evaluations and structured psychiatric interviews with participants in a NIH-funded study examining effects of alcohol use and HIV-infection on the brain.
- 6/00-6/01                    **Senior Research Associate II**, UCSF-Langley Porter Psychiatric Institute, San Francisco, CA: Performed psychometric evaluations and was responsible for managing a study examining the effects of exogenous hormones on cognitive and behavioral functioning.
- 7/00-12/00                    **Neuropsychology Pre-Internship**, UCSF/Northern California Comprehensive Epilepsy Center, San Francisco, CA: Pre and post-operative neuropsychological assessment of seizure patients.
- 2/97-7/99                    **Research Assistant**, UCSF-Alzheimer’s Disease Center, Fresno, CA: Conducted neuropsychological assessment and post-mortem neuropathological examination of patients with neurodegenerative diseases.
- 8/98-5/99                    **Neuropsychology Trainee** – Central Coast Neurobehavioral Center, Atascadero, CA. Neuropsychological assessment. Provided individual and group therapy to individuals with developmental disorders.
- 6/97-6/98                    **Psychology Trainee** - Veteran’s Administration Medical Center, Fresno, CA. Provided individual and group therapy to individuals dually diagnosed with substance use and other psychiatric illnesses.

## **TEACHING EXPERIENCE**

- Winter, 2018      **Neurophilosophy** (Course – undergraduate)  
California State University – Dominguez Hills  
Los Angeles, CA
- Winters, 2015-2017      **Neurophilosophy** (Course – undergraduate)  
University of California, Los Angeles  
Los Angeles, CA
- Fall, 2010      **Psychodiagnostic Assessment** (Course – graduate)  
Alliant International University  
Los Angeles, CA
- Spring, 2006      **Psychological Assessment** (Course - undergraduate)  
Loyola Marymount University  
Los Angeles, CA
- Spring, 2004      **Introduction to Psychological Testing** (Course - grad and undergraduate)  
California State University, Northridge  
Northridge, CA
- Fall, 2003      **Physiological Psychology** (Classes - graduate)  
Fuller Theological Seminary  
Pasadena, CA
- Summer, 2003      **General Psychology** (Course - undergraduate)  
El Camino College  
Torrance, CA
- September, 2002-  
Present      **Various Neuropsychology-related seminars** (Classes - post-graduate)  
UCLA - David Geffen School and Medicine  
Los Angeles, CA

## **PROFESSIONAL MEMBERSHIP**

American Academy of Clinical Neuropsychology  
National Academy of Neuropsychology  
International Neuropsychological Society  
International Society of Neurovirology  
American Psychological Society – Division 40  
Association for the Scientific Study of Consciousness

## **FELLOWSHIPS, AWARDS AND HONORS**

1994: Recipient-Undergraduate Research Fellowship in Neuropharmacology–SUNY Stony Brook

2003: Recipient of Tennenbaum Interdisciplinary Center – Creativity Research Initiative Award

2015: Participant in the NINDS Clinical Trials Methodology Course – Foundations Track

## **JOURNAL REVIEWER**

AIDS & Behavior, AIDS Care, Arch Clin Neuropsych, BioMed Research International, BMC Neurology, BMC Neuroscience, Clinical Infectious Disease, Current HIV Research, Database, European J of Neurology, Expert Opinion on Drug Discovery, Frontiers in CNS Drug Discovery, International J of Molecular Sciences, JAIDS, J of AIDS & Clinical Research, J of Clinical & Experimental Neuropsychiatry, J of Clinical Neuroscience, J of the International Neuropsychological Society, Metabolic Brain Disease, Neurobehavioral HIV Medicine, Neurology Research International, Neuropsychopharmacology, Neuroscience and Biobehavioral Reviews, Psychol Health & Medicine,

## **GRANT REVIEWER/STUDY SECTION MEMBER**

2004	Panel reviewer	Alzheimer’s Disease Res. Award-CA Dept. Health Services
2011-Present	Invited reviewer	UCSD HNRC Developmental Grants
2011	Invited reviewer	UCSD-Translational Methamphetamine AIDS Research Ctr
2011	Invited reviewer	Johns Hopkins NIMH Center for Novel Therapeutics
2012	Study Section	NIH: AIDS and AIDS Related Research
2013	Study Section	NIMH Clinical Neuroscience and Entertainment Software
2014	SEP reviewer	NIH NeuroAIDS and other End Organ Disease
2014	Invited reviewer	HIV & Drug Use Research Fellowship Program-IAS/NIDA
2016	SEP reviewer	NIDA Avant-Garde Award Program for HIV/AIDS Research
2017	Grant reviewer	American Academy of Clinical Neuropsychology Foundation

## **OTHER PROFESSIONAL ACTIVITIES**

2008-2013 Member - National NeuroAIDS Tissue Consortium Neuropsychiatry Working Group

2008-Present Member - Multi-Center AIDS Cohort Study Neuropsychology Working Group

2010-Present Work sample reviewer – ABBP/Clinical Neuropsychology

2012-Present Primary Faculty on Neuropsychology of AIDS Fellowship - T32 (MH19535)

## **JOURNAL PUBLICATIONS**

1. **Levine, A.** & Hewett, L. (2003). Estrogen replacement therapy and Frontotemporal Dementia. *Maturitas*, 45, 83-88.

2. **Levine, A.**, & Battista, M. (2004). Estrogen replacement therapy: Effects on the cognitive functioning and clinical course of women with Alzheimer's disease. *Archives of Clinical Neuropsychology*, *19*, 769-78.
3. **Levine, A.**, Miller, E., Becker, J., Selnes, O., & Cohen, B. (2004). Normative data for determining significance of test-retest differences on eight common neuropsychological instruments. *The Clinical Neuropsychologist*, *18*(3), 373-384.
4. **Levine, A.**, & Miller, K. (2005). Hormone Replacement Therapy and the Risk of Developing Dementia. In *Expertos Invitados (Invited Experts)*, *Sociedad Iberoamericana de Información Científica*, Oct. 11, 2005.
5. **Levine, A.**, Hinkin, C, Castellon, S., Mason, K., Lam, M., Perkins, A., Robinet, M., Longshore, D., Newton, T., Myers, H., Durvasula, R., & Hardy, D. (2005). Variations in patterns of highly active antiretroviral therapy (HAART) Adherence. *AIDS & Behavior*, *9*(3), 355-62.
6. **Levine, A.**, Hardy, D., Miller, E., Castellon, S., Longshore, D., and Hinkin, C. (2006). The effect of recent stimulant use on sustained attention in HIV-infected adults. *Journal of Clinical and Experimental Neuropsychology*, *28*, 29-42.
7. **Levine, A.**, Hinkin, C, Marion, S., Keuning, A., Castellon, S., Lam, M., Robinet, M., Longshore, D., Newton, T., Myers, H., & Durvasula, R. (2006). Adherence to antiretroviral medications in HIV: differences in data collected via self-report and electronic monitoring. *Health Psychology*, *25*(3), 329-35.
8. Hardy, D., Hinkin, C., **Levine, A.**, Castellon, S., Lam, M., & Mason, K. (2006). Risky Decision Making Assessed with the Gambling Task in Adults with HIV. *Neuropsychology*, *20*, 355-360.
9. Hinkin, C.H., Barclay, T.R., Castellon, S.A., **Levine, A.J.**, Durvasula, R.S., Marion, S.D., Myers, H. & Longshore, D. (2007). Drug use and medication adherence among HIV-1 infected individuals. *AIDS & Behavior*, *11*, 185-194.
10. Barclay, T.R., Hinkin, C.H., Mason, K.I., Reinhard, M.J., Marion, S.D., **Levine, A.J.**, & Castellon, S.A. (2007). Age-associated predictors of medication adherence in HIV+ adults: Health beliefs, self-efficacy, and neurocognitive status. *Health Psychology*, *26*(1), 40-9
11. **Levine, A.J.**, Hardy, D.J., Barclay, T.R., Cole, M.A., Reinhard, M.J., & Hinkin, C.H. (2007). Elements of Attention in HIV-infected adults: evaluation of an existing model. *Journal of Clinical and Experimental Neuropsychology*, *12*, 1-10.
12. Rohit, M., **Levine, A.J.**, Hinkin, C.H., Abramyan, S., Saxton, E., Valdes-Sueiras, M., & Singer, E. (2007). Education correction using years in school or reading grade-level equivalent?: Comparing the accuracy of two methods in diagnosing HIV-associated neurocognitive impairment. *Journal of the International Neuropsychological Society*, *14*, 1-9.

13. Reinhard, M.J., Hinkin, C.H., Barclay, T.R., **Levine, A.J.**, Marion, S., Castellon, S.A., Longshore, D., Newton, T., Durvasula, R.S., Lam, M.N., & Myers, H. (2007). Discrepancies between self-report and objective measures for stimulant drug use in HIV: Cognitive, medication adherence and psychological correlates. *Addictive Behaviors*, *32*(12), 2727-2736.
14. **Levine, A.J.**, Hinkin, C.H., Miller, E., Becker, J., Selnes, O.A., & Cohen, B.A. for the Multicenter AIDS Cohort Study. (2007). The generalizability of test/retest data derived from a non-clinical sample for detecting change among two HIV+ cohorts. *Journal of Clinical and Experimental Neuropsychology* *29*(6), 669-678.
15. **Levine, A.**, Miller, K., Singer, E., & Sutton, J. (2008). Hormone Replacement Therapy and Risk for Neurodegenerative Diseases. *Sociedad Iberoamericana de Información Científica*
16. Hinkin, C.H., Castellon, S.A., **Levine, A.J.**, & Barclay, T.R. (2008). Neurocognitive Performance in Individuals Co-Infected with HIV & Hepatitis C. *Journal of Addictive Diseases*, *27*(2), 11-17.
17. **Levine, A.J.**, Hinkin, C.H., Ando, K., Santangelo, G., Martinez, M., Valdes-Sueiras, M., Saxton, E., Mathisen, G., Commins, D., Wiley, D., Moe, A., Farthing, C., & Singer, E. (2008). An exploratory study of long-term neurocognitive outcomes following recovery from opportunistic brain infections in HIV+ adults. *Journal of Clinical and Experimental Neuropsychology*, *30* (7), 836-843
18. Shapshak, P., Rodriguez, H.E., Kayathri, R., **Levine, A.**, Chiappelli, F., & Minagar, A. (2008). Alzheimer's disease and HIV-associated dementia related genes. I. Location and Function. *Bioinformatics*, *2*(8), 348-57.
19. Hardy, D., Castellon, S., Hinkin, C., **Levine, A.**, Lam, M. (2008). Sensation seeking and visual selective attention in adults with HIV/AIDS. *AIDS & Behavior*, *12* (6), 930-934.
20. Shapshak, P., Chiappelli, F., Commins, D., Singer, E., **Levine, A.J.**, Kanguane, P., Somboonwit, C., Minagar, A., & Pellionisz, A.J. (2008). Molecular Epigenetics, Chromatin, and NeuroAIDS/HIV. II. Translational Implications, *Bioinformatics*, *3*(1), 53-57.
21. **Levine, A.J.**, Singer, E.J., & Shapshak, P. (2009). The role of host genetics in the susceptibility to HIV-associated neurocognitive disorders. *AIDS & Behavior*, *13*, 118-132.
22. Shapshak, P., Somboonwit, C., Drumright, N., Frost, S., Tellinghuisen, T., Scott, W., Duncan, R., McCoy, C., Page, J.B., Giunta, B., Fernandez, F., Commins, D., Singer, E., **Levine, A.**, Minagar, A., Oluwadara, O., Kotila, T., Chiappelli, F., & Sinnott, J.T. (2009). Molecular and contextual markers of HCV and drug abuse. *Molecular Diagnosis and Therapy*, *13*(3). 153-179.
23. **Levine, A.J.**, Singer, E.J., Sinsheimer, J.S., Hinkin, C.H., Papp, J., Dandekar, S., Giovanelli, A., & Shapshak, P. (2009). CCL3 genotype and current depression increase risk for HIV-associated dementia. *Neurobehavioral HIV Medicine*, *1*: 1-7

24. Singer, E.J., Valdes Sueiras, M., Commins, D., & **Levine, A.** (2010). Neurologic Presentations of AIDS. *Neurologic Clinics of North America*, 28(1):253-75.
25. Ettenhofer, M., Foley, J., Behdin, N., **Levine, A.**, Catellon, S., and Hinkin, C. (2010). Reaction Time Variability in HIV+ Individuals. *Archives of Clinical Neuropsychology*. 25(8):791-8
26. Shapshak, P., Kanguane, P., Fujimura, R.K., Commins, D., Chiappelli, F., Singer, E.J., **Levine, A.J.**, Minagar, A., Novembre, F.J., Somboonwit, C., Nath, A., & Sinnott, J. (2011). Editorial NeuroAIDS Review. *AIDS*. 25(2):123-41
27. Sowmya, G., Shamini, G., Anita, S., Sakharkar, M., Mathura, V., Rodriguez, H., **Levine, A.**, Singer, E., Commins, D., Somboonwit, C., Sinnott, J., Sidhu, H., Rajaseger, G., Pushparaj, P., Kanguane, P., & Shapshak, P. (2011). HIV-1 envelope accessible surface and polarity: clade, blood, and brain. *Bioinformation* 6(2): 48-57
28. Shapshak, P., Duncan, R., Duran, E.M., Farinetti, F., Minagar A., Commins, D., Rodriguez H., Chiappelli, F., Kanguane, P., **Levine, A.J.**, Singer E., Somboonwit, C., & Sinnott, J.T. (2011). HIV-associated dementia and HIV encephalitis gene expression in microdissected neurons. *Neurobehavioral HIV Medicine* 3, 53–78
29. Shapshak, P., Duncan, R., Kanguane, P., Somboonwit, C., Sinnott, J., Commins, D., Singer, E., & **Levine, A.** (2011). HIV associated dementia and HIV encephalitis II: Genes on chromosome 22 expressed in individually microdissected *Globus pallidus* neurons (Preliminary analysis). *Bioinformation* 6(5), 183-186
30. **Levine, A.J.**, Palomo, M., Hinkin, C.H., Valdes-Sueiras, M., Lopez, E., Mathisen, G., Donovan, S. & Singer, E.J. (2011). A comparison of screening batteries in the detection of neurocognitive impairment in HIV-infected monolingual Spanish Speakers. *Neurobehavioral HIV Medicine*, 3, 79-86
31. Shapshak, P., Somboonwit, C., Sinnott, J.T., Commins, D., Singer, E., & **Levine, A.J.** (2011). Gene-chromosome locations of neuropsychiatric diseases. *Bioinformation* 7(7), 366-8
32. **Levine, A.J.**, Sinsheimer, J.S., Bilder, R., Shapshak, P., & Singer, E.J. (2012). Functional polymorphisms in dopamine-related genes: Effect on neurocognitive functioning in HIV+ adults. *Journal of Clinical and Experimental Neuropsychology*. 34(1):78-91
33. Dye, R., Miller, K., Singer, E., & **Levine, A.J.** Hormone replacement therapy and risk for neurodegenerative disease. (2012). *International Journal of Alzheimer's disease*. Volume 2012, doi:10.1155/2012/258454.

34. **Levine, A.J.**, Service, S., Miller, E.N., Reynolds, S.M., Singer, E.J., Shapshak, P., Martin E.M., Sacktor, N., Becker, J.T., Jacobson, L.P., Thompson, P., & Freimer, N. (2012). Genome-wide association study of neurocognitive impairment and dementia in HIV-infected adults. *American Journal of Medical Genetics- Part B: Neuropsychiatric Genetics*. 159B(6): 669-83
35. Gelman, B.B., Chen, T., Lisinicchia, J.G., Soukup, V.M., Carmical, R.S., Starkey, J.M., Masliah, E., Commins, D.L., Brandt, D., Grant, I., Singer, E.J., **Levine, A.J.**, Miller, J., Luxon, B.A., & Morgello, S. The National NeuroAIDS Tissue Consortium. (2012). Brain Gene Array: Two types of HIV-associated neurocognitive impairment. *PLoS ONE*. 7(9)
36. Soontornniyomkij, V., Moore, D.J., Gouaux, B., Soontornniyomkij, B., Tatro, E.T., Umlauf, A., Masliah, E., **Levine, A.J.**, Singer, E.J., Vinters, H.V., Gelman, B.B., Morgello, S., Cherner, M., Grant, I., & Achim, C.L. (2012). Cerebral  $\beta$ -amyloid deposition predicts HIV-associated neurocognitive disorders in APOE  $\epsilon$ 4 carriers. *AIDS*. 26(18):2327-35
37. Panos, S.E., Hinkin, C.H., Singer, E.J., Thames, A.D., Patel, S., Sinsheimer, J.S., Del Re, A.C., Valdes-Sueiras, M., & **Levine, A.J.** (2013). Apolipoprotein-E genotype and human immunodeficiency virus-associated neurocognitive disorder: the modulating effects of older age and disease severity. *Neurobehavioral HIV Medicine*, 5, 11-22
38. **Levine, A.J.**, Miller, J.A., Shapshak, P., Gelman, B., Singer, E.J., Hinkin, C.H., Commins, D., Morgello, S., Grant, I., & Horvath, S. (2013). Systems analysis of human brain gene expression: mechanisms for HIV-associated neurocognitive impairment and common pathways with Alzheimer's disease. *BMC Medical Genomics*, 6 (4). DOI: 10.1186/1755-8794-6-4
39. **Levine, A.J.**, Horvath, S., Miller, E.N., Singer, E.J., Shapshak, P., Baldwin, G.C., Martinez-Maza, O., Witt, M.D., & Langfelder, P. (2013). Transcriptome analysis of HIV-infected peripheral blood monocytes: gene transcripts and networks associated with neurocognitive functioning. *Journal of Neuroimmunology*. 265, 96-105
40. **Levine, A.J.**, Horvath, S., & Panos, E.S. (2014). Genetic, transcriptomic, and epigenetic studies of HIV-associated neurocognitive disorder. *Journal of Acquired Immune Deficiency Syndromes*. 65, 481-503
41. **Levine, A.J.**, Reynolds, S., Cox, C., Miller, E.N., Sinsheimer, J.S., Becker, J.T., Martin, E., & Sacktor, N., for the Neuropsychology Working Group of the Multicenter AIDS Cohort Study. (2014). The longitudinal and interactive effects of HIV status, stimulant use, and host genotype on neurocognitive functioning. *Journal of NeuroVirology*. 20(3), 243-257
42. Kallianpur, A.R. & **Levine, A.J.** (2014). Host Genetic Factors Predisposing to HIV-Associated Neurocognitive Disorder. *Current HIV/AIDS Reports*, 11(3), 336-52



43. Becker, J.T., Kingsley, L., Molsberry, S., Reynolds, S., Aranow, A., **Levine, A.J.**, Martin, E., Miller, E., Munro, C.A., Ragin, A., Sacktor, N., & Selnes, O. (2015). Cohort Profile: Recruitment cohorts in the neuropsychological substudy of the Multicenter AIDS Cohort Study. *International Journal of Epidemiology*, 44(5): 1506–1516.
44. Becker, J.T., Martinson, J.J., Penugonda, S., Kingsley, L., Molsberry, S., Wolinsky, S., Reynolds, S., Aronow, A., **Levine, A.**, Martin, E., Miller, E.N., Munro, C.A., Ragin, A., and Sacktor, N. (2015). No association between ApoE alleles, HIV infection, age, neuropsychological outcome or death. *Journal of NeuroVirology*, 21 (1), 24-31
45. Fogel, G.B., Lamers, S.L., **Levine, A.J.**, Valdes-Sueiras, M., Hinkin, C., McGrath, M.S., Shapshak, P., & Singer, E.J. (2015). Factors Related to HIV-Associated Neurocognitive Impairment Differ With Age. *Journal of NeuroVirology*, 21(1), 56-65
46. Molsberry, S.A., Lecci, F., Kingsley, L., Junker, B., Reynolds, S., Goodkin, K., **Levine, A.J.**, Martin, E., Miller, E.n., Munro, C.A., Ragin, A., Sacktor, N., & Becker, J.T. (2015). Mixed Membership Models Identify Risk Factors to Trajectories for Cognitive Impairment in the Multicenter AIDS Cohort Study. *AIDS*, 29(6), 713-21
47. Thames, A.D., Briones, M.S., Magpantay, L.I., Martinez-Maza, O., Singer, E.J., Hinkin, C.H., Morgello, S., Gelman, B., Moore, D.J., Heizerling, K., & **Levine, A.J.** (2015). The role of CCL2 genotype and cerebrospinal fluid CCL2 in neurocognition among HIV-infected patients. *AIDS*, 29 (12), 1483-1491
48. Horvath, S., & **Levine, A.J.** (2015). HIV-1 viremia accelerates age according to the epigenetic clock. *Journal of Infectious Disease*, 212(10), 1563-73
49. **Levine, A.J.**, Quach, A., Moore, D.J., Achim, C.L., Soontornniyomkij, V., Masliah, E., Singer, E.J., Gelman, B., Nemanim, N., & Horvath, S. (2016). Accelerated epigenetic aging in brain is associated with pre-mortem HAND. *Journal of NeuroVirology*. 22(3), 366-375
50. Rossi, F., Li, X., Silver, B., Jacobson, L., Margolick, J., **Levine, A.J.**, & Viscidi, R. (2015). BK virus capsid antibodies are associated with protection against subsequent development of PML in HIV-infected patients. *Virology*, 485, 467-72
51. **Levine, A.J.**, Soontornniyomkij, V., Achim, C.L., Masliah, E., Gelman, B., Sinsheimer, J.S., Singer, E.J., & Moore, D.J. (2016). Multilevel analysis of neuropathogenesis of neurocognitive impairment in HIV. *Journal of NeuroVirology*. 22(4), 431-441
52. Sacktor, N., Reynolds, S., Skolasky, R., Munro, C., Becker, J.T., Martin, E., Ragin, A., **Levine, A.**, & Miller, E. (2016) Prevalence of HIV-associated neurocognitive disorders in the Multicenter AIDS Cohort Study. *Neurology*. 86(4), 334-40

53. López, E., Steiner, A. J., Smith, K., Thaler, N. S., Hardy, D. J., **Levine, A.**, Al-Kharafi, H. T., Yamakawa, C., & Goodkin, K. (2017). The diagnostic utility of the HIV Dementia Scale and the International HIV Dementia Scale in screening for HIV-associated neurocognitive disorders among Spanish-speaking adults. *Applied Neuropsychology: Adult*, 24(6):512-521
54. Narasimhan, V.J., Jain, S., Walker, L., Bilavaker, S., Chattopadhyay, A., Becker, J.T., Bar-Joseph, Z., Rinaldo, C., **Levine, A.J.**, & Ayyavoo, V. (2017). Transcriptome analysis identifies key cellular factors associated with HIV-1 neuropathogenesis in infected individuals" *AIDS*, 13;31(5):623-633
55. **Levine, A.J.**, Martin, E., Sacktor, N., Munro, C., & Becker, J.T. (2017) Predictors and impact of self-reported suboptimal effort on estimates of prevalence of HIV-associated neurocognitive disorders. *JAIDS*, 75(2), 203–210
56. Armstrong, N.M., Surkan, P.J., Treisman, G.J., Sacktor, N.C., Irwin, M.R., Teplin, L.A., Stall, R., Martin, E.M., Becker, J.T., Munro, C., **Levine, A.J.**, Jacobson, L.P., & Abraham, A.G. (2017). Association of Long-term Patterns of Depressive Symptoms and Attention/Executive Function among Older Men with and without Human Immunodeficiency Virus. *Journal of NeuroVirology*, 23(4):558-567
57. Bryant, A.K., Moore, D.J., Burdo, T., Lakritz, J., Gouaux, B., Soontornniyomkij, V., Achim, C., Masliah, E., Grant, I, **Levine, A.J.**, & Ellis, R.J. (2017). Plasma soluble CD163 is associated with postmortem brain pathology in human immunodeficiency virus infection. *AIDS*, 31(7):973-979
58. Quach, A., Horvath, S., Nemanim, N., Vatakis, D., Witt, M., Miller, E., Detels, R., Langfelder, P., Shapshak, P., Singer, E., & **Levine, A.** (2018). No reliable gene expression biomarkers of current or impending neurocognitive impairment in peripheral blood monocytes of persons living with HIV. *Journal of NeuroVirology*, 24(3), 350-361
59. Molsberry, S.A., Cheng, Y., Kingsley, L., Jacobson, L., **Levine, A.J.**, Martin, E., Miller, E., Munro, C.A., Ragin, A., Sacktor, N., & Becker, J.T. Neuropsychological Phenotypes Among Men with and Without HIV Disease in the Multicenter AIDS Cohort Study. *AIDS*. In press
60. Soontornniyomkij, V., Umlauf, A., Soontornniyomkij, B., Gouaux, B., Ellis, R.J., **Levine, A.J.**, Moore, D.J., & Letendre, S.L. Association of antiretroviral therapy with brain aging changes in HIV-infected adults. *AIDS*. In press
61. Horvath, S., Phillips, N, Heany, S.J., Kobor, M.S., Lin, D.T.S., Myer, L., Zar, H.J., Stein, D.J., Hoare, J., & **Levine, A.J.** Perinatally acquired HIV infection accelerates epigenetic aging in South African adolescents. *AIDS*, 32, 1465–1474

62. Yang, J., Jacobson, L.P., Becker, J.T., **Levine, A.J.**, Martin, E.M., Munro, C., Palella, F.J., Lake, J.E., Sacktor, N., & Brown, T.T. Impact of glycemic status on longitudinal cognitive performance in men with and without HIV: The Multicenter AIDS Cohort Study (MACS). *AIDS*. In press
63. Tylee, D., Hess, J., Tahir, M., Sharma, E., Malik, R., Worrall, B., **Levine, A.**, Martinson, J., Nejenstev, S., Speed, D., Fischer, A., Mick, E., Walker, B., Crawford, A., Grant, S., Polychronakos, C., Bradfield, J., Sleiman, P., Hakonarson, H., Faraone, S., & Glatt, S. Genetic correlations among brain-behavioral and immune-related phenotypes based on genome-wide association data. *Am J Med Gen: Part B - Neuropsychiatric Genetics*. In press
64. Wu, M., Fatukasi, O., Yang, S., Alger, J., Barker, P.B., Hetherington, H., Kim, T., **Levine, A.**, Martin, E.M., Munro, C.A., Parrish, T., Ragin, A., Sacktor, N., Seaberg, E.C., & Becker, J.T. HIV Disease and Diabetes Interact to Affect Brain White Matter Hyperintensities and Cognition. *AIDS*. In press
65. Hawkins, K.L., Zhang, L., Jacobson, L., Becker, J.T., Munro, C.A., Lake, J.E., Martin, E., **Levine, A.**, Brown, T.T., Sacktor, N., & Erlandson, K.M. Effects of BMI, Waist Circumference, and Age on Cognitive Function in the MACS Cohort. *JAIDS*. Manuscript under review
66. **Levine, A.J.**, Martin, E., Munro, C., Sacktor, N., Horvath, S., Becker, J. for the Multicenter AIDS Cohort Study - Neuropsychology Working Group. Intra-individual variability in neurocognitive performance among HIV-infected men is not due to suboptimal effort. *Journal of Clinical and Experimental Neuropsychology*. Manuscript under review
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## **BOOK CHAPTERS**

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2. **Levine, A.J.**, Martin, E.M., & Gonzalez, R. (2012). Neurocognition in HIV and Substance Use Disorders. In I. Everall, H. Fox, I. Grant, S. Lipton, S. Swindells, and H. Gendleman's (eds) *The Neurology of AIDS, Third Edition*.
3. **Levine, A.J.**, Ross, M., Gonzalez, R., & Martin, E.M. (2015). Neurocognitive functioning in HIV+ substance users. In T. Hope, D.D. Richman, and M. Stevenson's (eds) *Encyclopedia of AIDS*.

4. **Levine, A.J.**, Singh, K., & Kallianpur, A. (2017). Genetic, epigenetic, and transcriptomic studies of NeuroAIDS. In P. Shapshak, A. Levine, B.T. Foley, C. Somboonwit, E. Singer, F. Chiappelli, & J.T. Sinnott (eds) *Global Virology II. HIV and NeuroAIDS*.

### **EDITED BOOKS**

1. *Global Virology II. HIV and NeuroAIDS (2017)*. P. Shapshak, **A. Levine**, B.T. Foley, C. Somboonwit, E. Singer, F. Chiappelli, & J.T. Sinnott. Springer, New York, NY

### **CONFERENCE ABSTRACTS**

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25. Benard, S., **Levine, A.J.**, & Singer, E.J. Neurocognitive outcomes in HIV+ abstinent cocaine versus methamphetamine users. *Presented at the 2nd Annual AIDS Research Symposium at UCLA. October 19, 2009.*
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27. **Levine, A.J.**, Singer, E.J., Bilder, R., & Sinseimer, J. Dopamine-related genes affect cognitive functioning and risk for HIV-associated neurocognitive disorders. *Presented at the 38<sup>th</sup> annual meeting of the International Neuropsychological Society, Acapulco, Mexico. February 2010*

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37. Panos, S.E., Thames, A.D., Patel, S.M., Hinkin, C.H., Singer, E., & **Levine, A.J.** The Interplay between APOE E4, Disease Severity, and Cognition. *Presented at the 92<sup>nd</sup> annual conference of the Western Psychological Association, April 26-29, 2012*

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40. **Levine, A.J.**, Reynolds, S., Cox, C., Miller, E., Service, S., Becker, J., Sacktor, N., Martin, E., and the Mutlicenter AIDS Cohort Study. Longitudinal analysis of interactive effects of host genotype, stimulant use, and HIV status upon neurocognitive functioning. *Presented at the 11<sup>th</sup> Symposium of the International Society on NeuroVirology, May 29-June 2, 2012*
41. **Levine, A.J.**, Achim, C., Singer, E.J., Masliah, E., Sinsheimer, S., Soontornniyomkij, V., & Moore, D.J. Establishing a link between host genotype and HIV-related neuropathology – a novel approach to understanding neuropathogenesis. *Presented at the 41<sup>st</sup> annual conference of the International Neuropsychological Society, February 5-9, 2013*
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45. **Levine, A.J.**, Horvath, S., Miller, E.M., Singer, E.J., Shapshak, P., Baldwin, G.C., Martinez-Maza, O., Witt, M.D., Langfelder, P. Transcriptome analysis of HIV-infected peripheral blood monocytes: gene transcripts and networks associated with neurocognitive functioning. *Presented at the 12<sup>th</sup> Symposium of the International Society on NeuroVirology, October 29-November 2, 2013*
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47. Thames, A., Magpantay, L., Martinez-Maza, O., Singer, E., Hinkin, C., Byrd, D., & **Levine, A.** Genotype, CSF inflammation, and cognitive performance among African Americans and European Americans with HIV-infection. *Presented at the 34<sup>th</sup> Annual Conference of the National Academy of Neuropsychology, Fajardo, Puerto Rico, November 12-15, 2014*
48. Thames, A.D., Briones, M.S., Magpantay, L.I., Martinez-Maza, O., Singer, E.J., Hinkin, C.H., Heizerling, K., & **Levine, A.J.** CCL2 genotype, CSF inflammatory markers, and neurocognitive functioning in an HIV+ sample. *Presented at the 53<sup>rd</sup> Annual Meeting of the American College of Neuropsychopharmacology, Phoenix, AZ December 7-11, 2014*
49. Molsberry, S., Lecci, F., Junker, B., Reynolds, S., **Levine, A.**, Martin, E., Munro, C., Sacktor, N., & Becker, J. with the Neuropsychology Working Group Multicenter AIDS Cohort Study. Mixed Membership Trajectory Model of Cognitive Impairment in the MACS. *Presented at the 22<sup>nd</sup> Conference on Retroviruses and Opportunistic Infections, Seattle, WA, February 23-26, 2015*
50. **Levine, A.**, Soontornniyomkij, V., Achim, C., Gouaux, B., Masliah, E., Sinsheimer, J., Singer, E., & Moore, D. Bridging genetics, histopathology, and neurocognition in the context of HAND. *Presented at the 22<sup>nd</sup> Conference on Retroviruses and Opportunistic Infections, Seattle, WA, February 23-26, 2015*
51. Becker, J.T., Popov, M., Molsberry, S., Lecci, F., Junker, B., Kingsley, L.A., Goodkin, K., **Levine, A.**, Miller, E., Munro, C., Ragin, A., Reynolds, S., & Sacktor, N. Multiple imputation of random covariates to assess the brain structural correlates of cognitive trajectories in HIV disease. *Presented at the 22<sup>nd</sup> Conference on Retroviruses and Opportunistic Infections, Seattle, WA, February 23-26, 2015*
52. Sacktor, N., Reynolds, S., Skolasky, R., Munro, C., Becker, J., Martin, E., Ragin, A., **Levine, A.**, & Miller, E. Frequency of HIV-associated neurological disorders over four years of follow-up: results from the Multicenter AIDS Cohort Study. *Presented at the American Academy of Neurology 67<sup>th</sup> Annual Meeting, Washington, D.C., April 18-25, 2015*
53. Thames, A.D., Briones, M., Magpantay, L., Singer, E.J., Martinez-Maza, O., Panos, S., Hinkin, C.H., & **Levine, A.J.** HIV+ APOE4 carriers are at risk for neurocognitive impairment due to greater disease severity and CSF inflammation. *Presented at the 21<sup>st</sup> meeting for the Society for Neuroimmune Pharmacology, Miami, FL, April 22-25, 2015*
54. **Levine, A.**, Quach, A., Miller, E., Vatakis, D., Singer, E., Shapshak, P., Martinez-Maza, O., Witt, M., Langfelder, P., & Horvath, S. Gene expression changes in monocytes predict neurocognitive dysfunction two years later. *Presented at the 13<sup>th</sup> meeting of the International Society on NeuroVirology, San Diego, CA, June 2-6, 2015*
55. Horvath, S. & **Levine, A.** HIV-1 viremia accelerates age of human cortex and blood cells. *Presented at the 13<sup>th</sup> meeting of the International Society on NeuroVirology, San Diego, CA, June 2-6, 2015*

56. Bryant, A.K., Moore, D.J., Burdo, T.H., Lakritz, J.R., Gouaux, B.A., Soontornniyomkij, V., Achim, C.L., Masliah, E., Grant, I., **Levine, A.J.**, Ellis, R.J. Plasma soluble CD163 is associated with postmortem brain pathology in human immunodeficiency virus infection. *Presented at the 14<sup>th</sup> meeting of the International Society on NeuroVirology, Toronto, Canada, October 25-28, 2016*
57. Gruenewald, A., Kim, I.J., Kolson, D., Vatakis, D. & **Levine, A.** Preclinical studies of Bardoxolone for the prevention and treatment of HIV-associated neurocognitive disorders. *Presented at the 14th meeting of the International Society on NeuroVirology, Toronto, Canada, October 25-28, 2016*
58. Molsberry, S.A., Cheng, Y., Kingsley, L., Becker, J.T., Jacobsen, L. **Levine, A.**, Martin, E., Munro, C.A., Ragin, A., & Sacktor, N. for the Neuropsychology Working Group of the MACS. Cluster Analysis of Neuropsychological Test Performance at the Time of First Cognitive Classification in the Multicenter AIDS Cohort Study. *Presented at the 14th meeting of the International Society on NeuroVirology, Toronto, Canada, October 25-28, 2016*
59. Quash, A., Horvath, S., Vatakis, D., Martinez-Maza, O., Shapshak, P., Witt, M., Singer, E., **Levine, A.** Peripheral blood monocyte transcriptome at baseline implicates Wnt-signaling pathway in later neurocognitive change. *Presented at the 14th meeting of the International Society on NeuroVirology, Toronto, Canada, October 25-28, 2016*
60. **Levine, A.**, Martin, E., Sacktor, N., Munro, C., & Becker, J. Suboptimal effort in HIV neuropsychological research studies: does it influence estimated prevalence rates of HIV-associated neurocognitive disorders (HAND)? *Presented at the 45<sup>st</sup> annual conference of the International Neuropsychological Society, New Orleans, USA, February 1-4, 2017*
61. Erlandson, K.M., Zhang, L., Jacobson, L., Becker, J., Munro, C., Lake, J., Martin, E., **Levine, A.**, Brown, T., & Sacktor, N. Effects of age and obesity on neurocognitive performance in the macs cohort. *Presented at the 22<sup>nd</sup> Conference on Retroviruses and Opportunistic Infections, Seattle, WA, February 13-16, 2017*
62. Kaur, H., Hulgan, T., Fennema-Notestine, C., Smieszek, S., Letendre, S., Ellis, R., Bush, W., Soontornniyomkij, V., Moore, D., Masliah, E., Sinsheimer, J., Barnholtz-Sloan, J., Samuels, D., **Levine, A.**, Kallianpur, A. Common SNPs in the HFE (Hemochromatosis) Gene are Associated with Neurocognitive Impairment and Aging-Related Neurodegenerative Processes in HIV+ Adults. *Presented at the 18th International Workshop on HIV & Aging, New York, NY, October 2-3, 2017*
63. Wu, M., Fatukasi, O., Yang, S., Alger, J., Barker, P., Kim, T., **Levine, A.**, Martin, E., Munro, C., Parrish, T.B., Ragin, A.B., Sacktor, N., Seaberg, E., & Becker, J.T. Brain white matter hyperintensities, HIV disease, cognition and diabetes. *Presented at the 23<sup>rd</sup> Conference on Retroviruses and Opportunistic Infections, Boston, Massachusetts, MA, March 4-7, 2018*

64. Molsberry, S.A., Cheng, Y., Kingsley, L., Jacobson, L., **Levine, A.**, Martin, E., Miller, E., Munro, C., Ragin, A.B., Sacktor, N., & Becker, J.T. Neuropsychological phenotypes in the MACS. *Presented at the 23<sup>rd</sup> Conference on Retroviruses and Opportunistic Infections, Boston, Massachusetts, MA, March 4-7, 2018*
65. Wang, Z., Cheng, Y., Molsberry, S.A., Kingsley, L., **Levine, A.**, Martin, E., Miller, E., Munro, C., Ragin, A.B., Sacktor, N., Seaberg, E., Becker, J.T. Classifying cognitive status in HIV-infected men by multivariate normative comparison. *Presented at the 23<sup>rd</sup> Conference on Retroviruses and Opportunistic Infections, Boston, Massachusetts, MA, March 4-7, 2018*
66. Sinsheimer, J., Horvath, S., Moore, M., Soontornniyomkij, V., Achim, C., Gouaux, B., & **Levine, A.** NFE2L2 haplotypes are associated with HIV-associated neurocognitive impairment and intermediate phenotypes. *Presented at the 15th meeting of the International Society on NeuroVirology, Chicago, Illinois, April 10-14, 2018*
67. Soontornniyomkij, V., Moore, D.J., Gouaux, B., Soontornniyomkij, B., Sinsheimer, J.S., Ellis, R.J., Letendre, S.L., Jeste, D.V., & **Levine, A.J.** Cerebral amyloid- $\beta$  plaques link host genotypes to neurocognitive impairment among HIV-infected adults. *Presented at the 15th meeting of the International Society on NeuroVirology, Chicago, Illinois, April 10-14, 2018*
68. **Levine, A.**, Phillips, N., Heany, S., Stein, D., Zar, H., Kobor, M., Lin, D., Hoare, J., & Horvath, S. Perinatally acquired HIV infection and epigenetic age acceleration in South African adolescents. *Presented at the 15th meeting of the International Society on NeuroVirology, Chicago, Illinois, April 10-14, 2018*
69. **Levine, A.**, Munro, C., Sacktor, N., Horvath, S., Becker, J., & Martin, E. Intra-individual variability in neurocognitive performance: no influence due to HIV status or self-reported effort. *Presented at the 15th meeting of the International Society on NeuroVirology, Chicago, Illinois, April 10-14, 2018*
70. Sundermann, E.E., **Levine, A.**, Horvath, S., Moore, D.J., and the HNRP Group. Inflammation-Related Genes are Associated with Accelerated Aging in HIV. *Presented at the 15th meeting of the International Society on NeuroVirology, Chicago, Illinois, April 10-14, 2018*
71. Sundermann, E.E., **Levine, A.J.**, Paolillo, E.W., Masliah, E., Adame, A., Gouaux, B., Soontornniyomkij, V., Moore, D.J., and the HNRP Group. The relationship between synaptodendritic neuropathology and HIV-associated neurocognitive disorders is moderated by age. *Presented at the 9th International Workshop on HIV & Aging 2018, New York, NY, September 13-14, 2018*

## **INVITED TALKS & PRESENTATIONS**

1. **Levine, A.J.** Frontotemporal Lobar Degeneration and Related Syndromes. *Presented at NIBBL seminar, Department of Neuropsychology, UCLA-Semel Institute for Neuroscience and Human Behavior. April 9, 2009*
2. **Levine, A.J.** HIV-Associated Neurocognitive Disorders. *Presented at Neurologic and Neuropsychiatric Syndromes Course, Department of Neuropsychology, UCLA-Semel Institute for Neuroscience and Human Behavior. June 11, 2009*
3. **Levine, A.J.** The Genetics of HIV-Associated Neurocognitive Disorder. *Presented at NIBBL seminar, Department of Neuropsychology, UCLA-Semel Institute for Neuroscience and Human Behavior. March 25, 2010*
4. **Levine, A.J.** The Neuropsychology of Infectious Diseases. *Presented at Neurologic and Neuropsychiatric Syndromes Course, Department of Neuropsychology, UCLA-Semel Institute for Neuroscience and Human Behavior. May 7, 2010*
5. **Levine, A.J.** Genetic studies of HIV-associated neurocognitive disorders. *Presented at the Multicenter AIDS Cohort Study Working Group Meeting, October 19, 2010*
6. **Levine, A.J.** Genetic studies of NeuroAIDS in the NNTC. *Presented at the National NeuroAIDS Tissue Consortium Scientific Leadership Group Meeting, October 28, 2010*
7. **Levine, A.J.,** Genetic risk factors for HIV-associated neurocognitive disorders. *Presented at the 91<sup>st</sup> annual convention of the Western Psychological Association, April 28<sup>th</sup>, 2011*
8. **Levine, A.J.** HIV-Related Neurobehavioral Aberrations. *Invited talk for the Northern California Neuropsychological Forum, October 26<sup>th</sup>, 2011*
9. **Levine, A.J.** Case presentation of HIV-associated neurocognitive disorder. *Invited talk for the Northern California Neuropsychological Forum, March 21<sup>st</sup>, 2012*
10. **Levine, A.J.** Longitudinal analysis of interactive effects of host genotype, stimulant use, and HIV status upon neurocognitive functioning. *Presented at the 11<sup>th</sup> Symposium of the International Society on NeuroVirology, May 31, 2012*
11. **Levine, A.J.** Genomic, Transcriptomic, and Epigenomic Studies in the Multicenter AIDS Cohort Study. *Presented at the Annual MACS/WIHS Meeting, November 7, 2014*
12. **Levine, A.J.** Neuropsychological manifestations of HIV-1 infection. *Presented for the UCLA School of Epidemiology, May 27, 2016*

13. **Levine, A.** Peripheral blood monocyte transcriptome at baseline implicates Wnt-signaling pathway in later neurocognitive change. *Presented at the 14th meeting of the International Society on NeuroVirology, Toronto, Canada, October 25-28, 2016*
14. **Levine, A.J.** HIV-associated neurocognitive disorders: fact or fiction? *Presented for the UCLA School of Epidemiology, May 10, 2017*
15. **Levine, A.J.**, Suboptimal effort during neuropsychological testing in the MACS: causes, consequences, and solutions. *Presented for the MACS Scientific Works In Progress series, November 1, 2017*
16. **Levine, A.J.** HIV-associated neurocognitive disorders: fact or fiction? *Presented for the UCLA School of Epidemiology, May 18, 2018*

## **RESEARCH SUPPORT**

## **Award Dates/Total Award**

### **Current:**

R03NS110476 National Institute of Neurological Disorders and Stroke <i>Causes and consequences of suboptimal cognitive effort in the MACS</i> Role: Principal Investigator	9/30/18-8/31/20 \$156,000
R21 MH115825-01 National Institute of Mental Health <i>Bardoxolone: a novel treatment for HIV-associated neurocognitive disorders</i> Role: Principal Investigator	9/1/18 – 8/30/20 \$350,000
2R01AG034852 (Becker) National Institute on Aging <i>Cardiovascular and HIV/AIDS Effects on Brain Structure/Function and Cognition</i> Role: Site Principal Investigator	9/30/10-3/31/21 \$6,584,985
R21MH107327-01 (Levine & Hoare) National Institute of Mental Health <i>Epigenetic and Psychosocial Drivers of NeuroHIV in HIV+ South African Adolescents</i> Role: Co-Principal Investigator	6/1/16-5/31/19 (NCTE) \$372,855

R01MD010680 (Stall) <i>Understanding Patterns of Healthy Aging among Men Who Have Sex with Men</i> Role: Co-investigator	9/25/15 – 6/30/20 \$2,748,000
U01-AI-35040 (Detels) National Institute of Allergy and Infectious Disease <i>The Natural History of AIDS in Homosexual Men</i> Role: Co-Investigator	4/01/93 - 3/31/19 \$ 4,231,197
R03AG056189 (Kelesidis) National Institute on Aging <i>Humanized mice as a model to study novel therapies for HIV-Associated Neurocognitive Disorders (HAND) in elderly HIV-1 infected individuals</i> Role: Co-Investigator (PI)	12/1/17-11/31/19
<b>Previous:</b>	
R01MH096648 (Levine and Moore) National Institute of Mental Health <i>A multisystems study of HIV neuropathogenesis: genetics-neuropathology-behavior</i> Role: Co-Principal Investigator	9/06/12-5/31/18 \$1,925,000
R21AG046954 (Horvath and Levine) National Institute on Aging <i>Cross-tissue study of an accelerated epigenetic aging mechanism caused by HIV</i> Role: Co-Principal Investigator	9/15/15 - 4/30/17 \$423,500
R01DA030913 (Levine and Horvath) National Institute on Drug Abuse <i>Pathways to HIV-associated neurocognitive disorders: A systems biology approach</i> Role: Co-Principal Investigator	8/1/10-7/31/16 \$1,925,000
U24MH100929 (Singer) National Institute of Neurological Disorders and Stroke <i>National Neurological AIDS Bank</i> Role: Co-Investigator	6/01/13-5/31/16 \$4,977,325

R25 (Thames) Program in Translational NeuroAIDS and Mental Health <i>Pro-inflammatory genotypes and susceptibility to HAND in African Americans</i> Role: Co-Investigator/Mentor	7/1/12-6/30/13 \$20,000
UCLA CFAR/AIDS Institute Fellowship Award (Panos) <i>Relationship between Apolipoprotein Genotype and Cognition in HIV</i> Role: Co-Investigator	7/10/12-7/9/13 \$5,000
AI28697 (Freimer & Levine) UCLA-AIDS Institute and the UCLA Center for AIDS Research <i>A Genome-Wide Association Study of HIV-Associated Neurocognitive Deficits</i> Role: Co-Principal Investigator	6/1/08-12/31/13 \$30,000
UL1TR000124 UCLA CTSI/CFAR Multidisciplinary Study of HIV/AIDS (Horvath) <i>Diagnostic and prognostic biomarkers for HIV-Associated Non-AIDS (HANA) conditions</i> Role: Co-Investigator	7/01/12-6/30/13 \$50,000
R03DA026099 (Levine) National Institute of Drug Abuse <i>The Impact of Host Genetics and Stimulant Use on Neurocognition in HIV+ Adults</i> Role: Principal Investigator	9/01/08-8/31/11 \$252,000
ID06-LA-187 (Levine) California HIV/AIDS Research Program (CHRP) <i>Genetic Polymorphisms and Neurocognitive Vulnerability in HIV</i> Role: Principal Investigator	9/1/06-3/01/09 \$100,000
AI28697 (Levine) UCLA-AIDS Institute and the UCLA Center For AIDS Research <i>Determining HIV-related Neurocognitive Impairment in Monolingual Spanish Speakers</i> Role: Principal Investigator	7/1/07-6/30/09 \$25,000