

**University of Pittsburgh
School of Medicine**

BIOGRAPHICAL

James Thompson Becker, Ph.D.	Birthdate: July 7, 1953
Home: 888 Eighth St. Oakmont, PA 15139 412-828-1767	Birth Place: New York, New York Citizenship: U.S.A.
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EDUCATION AND TRAINING

UNDERGRADUATE:

1971-75	Washington and Lee University Lexington, VA	B.A., 1975	Leonard Jarrard, Ph.D. Physiological Psychology
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GRADUATE:

1975-77	Northeastern University Boston, MA	M.A., 1977	Helen Mahut, Ph.D. Neuropsychology
1977-79	The Johns Hopkins University Baltimore, MD	MA., 1979	David S. Olton, Ph.D. Physiological Psychology
1980	The Johns Hopkins University Baltimore, MD	Ph.D., 1980	David D. Olton, Ph.D. Physiological Psychology

POST-GRADUATE:

1980-82	Boston University School of Medicine, National Institute on Alcohol Abuse Individual Fellowship		Nelson Butters, Ph.D. Neuropsychology
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1983-84	University of Connecticut School of Medicine, National Institute on Alcohol Abuse and Alcoholism Training Program	Victor Hesselbrock, Ph.D. Neuropsychology
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APPOINTMENTS AND POSITIONS

ACADEMIC:

1980-84	Boston University School of Medicine & the Boston VA Medical Center Boston, MA	Postdoctoral Research Fellow and Clinical Research Associate
1982-84	Newington VA Medical Center Newington, CT	Clinical Research Associate
1982-84	University of Connecticut School of Medicine Farmington, CT	Instructor and Assistant Professor of Psychiatry
1984-90	University of Pittsburgh School of Medicine	Assistant Professor of Psychiatry and Neurology (Secondary)
1990-95	University of Pittsburgh School of Medicine	Associate Professor of Psychiatry
1995-Present	University of Pittsburgh School of Medicine	Professor of Psychiatry and Neurology
1997-Present	Cognitive Neuroscience Program Department of Psychology University of Pittsburgh	Faculty
2001-Present	University of Pittsburgh Faculty of Arts & Sciences Department of Psychology	Professor of Psychology
2003-Present	University of Pittsburgh School of Medicine	Graduate Faculty

NON-ACADEMIC:

1980-84	Kirkland House, Harvard University Cambridge, MA	Non-Resident Tutor
1985-88	Friends of War Bonnet, Canaan, NH	Member, Board of Trustees
1986-88	Alzheimer's Research Program	Associate Director
1987-92	Behavioral Neurology of Aging Training Program	Associate Director
1993-94	Clinical Neuropsychology Center	Director
1992-95	Alzheimer's Disease Research Center	Director, Data Management Core
1989- Present	Alzheimer's Disease Research Center	Associate Director
1991- Present	Neuropsychology Research Program	Director
1994- Present	Center for the Neural Basis of Cognition	Faculty
1999- 2005	Alzheimer's Disease Research Center	Co-Director, Neuroimaging Core
2005- Present	Alzheimer's Disease Research Center	Acting Director, Neuroimaging Core

CERTIFICATION AND LICENSURE**SPECIALTY CERTIFICATION:**

American Board of Clinical Neuropsychology (#3953)	Diplomate	1987
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LICENSURE:

Pennsylvania (#PS-4755-L)	Psychology	1986
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MEMBERSHIPS IN PROFESSIONAL AND SCIENTIFIC SOCIETIES

American Association for the Advancement of Science	1975
Society for Neuroscience	1976
International Neuropsychological Society	1980
New York Academy of Science	1980
American Psychological Association	1985
Sigma Xi, The Scientific Research Society	1986
The Royal Society of Medicine (Fellow)	1987
American Psychological Society (Charter)	1988
National Academy of Neuropsychology	1992
British Psychological Society (Graduate Member)	1992
Aerospace Medical Association	1995

HONORS

Robert E. Lee Research Scholar, Washington & Lee University	1973-1975
Postdoctoral Fellowship (Individual) awarded by the National Institute for Alcohol Abuse and Alcoholism, Sponsored by Nelson Butters, Ph.D.	1980-1982

PUBLICATIONS

REFEREED ARTICLES:

1. Jarrard LE, Becker JT. The effects of selective hippocampal lesions on DRL behavior in rats. Beh Biol. 1977 21:393-404.
2. Olton DS, Becker JT, Handelmann GE. Hippocampus, space, and memory. Beh Br Sci. 1979 2:313-365.
3. Becker JT and Olton DS. Object discrimination by rats: The role of frontal and hippocampal systems in retention and reversal. Physiol Beh. 1980 24, 33-38.
4. Olton DS, Becker JT, Handelman GE. Hippocampal function: Working memory or cognitive mapping? Physiol Psych. 1980 8:239-246.
5. Becker JT, Walker JA, Olton DS. The neuroanatomical bases of spatial memory. Br Res. 1980 200:307-320.

6. Becker JT, Olton DS, Anderson CA, Breitinger ERP. Cognitive mapping in rats: The role of the hippocampal and frontal systems in retention and reversal. *Beh Br Res*. 1981, 3:1-22.
7. Becker JT, Olton DS. Cognitive mapping and hippocampal system function. *Neuropsychologia*. 1981 19:733-744.
8. Becker JT, Butters N, Hermann A, D'Angelo N. A comparison of the effects of long-term alcohol abuse and aging on the performance of verbal and nonverbal divided attention tasks. *Alcoholism: Clin Exp Res*. 1983 7:213-219.
9. Becker JT, Butters N, Hermann A, and D'Angelo N. Learning to associate names and faces: Impaired acquisition on the ecologically relevant memory task by male alcoholics. *J Nerv Ment Dis*. 1983 171:617-623.
10. Martone MA, Butters N, Payne M, Becker JT, Sax DS. Dissociations between skill learning and verbal recognition in amnesia and dementia. *Arch Neurol*. 1984 41:965-970.
11. Khan A, Ciraulo DA, Nelson WH, Becker JT, Nies A, Jaffe JH. Dexamethasone Suppression Test in recently detoxified alcoholics: Clinical implications. *J Clin Psychopharm*. 1984 4:94-97.
12. Becker JT, Jaffe JH. Impaired memory for treatment-relevant information in inpatient men alcoholics. *J Stud Alcohol*. 1984 45:339-343.
13. Kenyon RV, Becker JT, Butters N, Hermann H. Oculomotor function in Wernicke-Korsakoff's Syndrome: I. Saccadic eye movements. *Inter J Neuroscience*. 1984 25:53-65.
14. Kenyon RV, Becker JT, Butters N. Oculomotor function in Wernicke-Korsakoff's Syndrome: II. Smooth pursuit eye movements. *Inter J Neuroscience*. 1984 25:67-79.
15. Khan A, Nies A, Johnson GA, Becker JT. Plasma catecholamines and ECT. *Biol Psychiat*. 1985 20:799-804.
16. Becker JT, Butters N, Rivoira P, Miliotis P. Asking the right questions: Problem-solving in male alcoholics and male alcoholics with Korsakoff's syndrome. *Alcoholism: Clin Exp Res*. 1986 10:641-646.
17. Becker JT, Boller F, Saxton J, McGonigle-Gibson K. Normal rates of forgetting of verbal and nonverbal material in Alzheimer's disease. *Cortex*. 1987 23:59-72.
18. Huff FJ, Becker JT, Belle SH, Nebes RD, Holland A, Boller F. Cognitive deficits and clinical diagnosis of Alzheimer's disease. *Neurology*. 1987 37:1119-1124.

19. El-Awar M, Becker JT, Hammond KM, Nebes R, Boller F. Learning deficits in Parkinson's disease: Comparison with Alzheimer's disease and normal aging. Arch Neurol. 1987 44:180-184.
20. Becker JT, Huff FJ, Nebes RD, Holland A, Boller F. Neuropsychological function in Alzheimer's disease: Patterns of impairment and rates of progression. Arch Neurol. 1988 45:263-268.
21. Zubenko G, Huff FJ, Becker JT, Beyer J, Teply I. Cognitive function and platelet membrane fluidity in Alzheimer's disease. Bio Psych. 1988 24:925-936.
22. Becker JT. Working memory and secondary memory deficits in Alzheimer's disease. J Clin Exp Neuropsychol. 1988 10:739-753.
23. Swihart A, Panisset M, Becker JT, Beyer JR, Boller F. The Token Test: Validity and diagnostic power in Alzheimer's disease. Develop Neuropsychol. 1989 5:69-78.
24. Furman JMR, Becker JT. Vestibular responses in Wernicke's Encephalopathy. Ann Neurol. 1989 26:669-674.
25. Huff FJ, Protetch J, Saxton J, Becker JT. A comparison of measures of memory impairment for use in the diagnosis of Alzheimer's disease. Neuropsychology. 1989 3:29-40.
26. Miller EN, Selnes OA, Becker JT, Cohen BA, Machado AM, Satz P, McArthur JC, Sheridan K, Van Gorp WG, Visscher B. Neuropsychological performance in HIV-1 infected homosexual men: The Multi-Center AIDS Cohort Study (MACS). Neurology. 1990 40:197-203.
27. McArthur JC, Kumar AJ, Johnson DW, Selnes OA, Becker JT, Herman C, Cohen BA, Saah A. Incidental white matter hyperintensities on Magnetic Resonance Imaging in HIV-1 infection: The Multi-Center AIDS Cohort Study (MACS). JAIDS. 1990 3:252-259.
28. Becker JT, Furman JMR, Panisset M, Smith C. Characteristics of the memory loss of a patient with Wernicke-Korsakoff's syndrome without alcoholism. Neuropsychologia. 1990 28:171-179.
29. Lopez O, Boller F, Becker JT, Miller M, Reynolds CF. Alzheimer's disease and depression: Neuropsychological impairment and progression of the illness. Am J Psychiatry. 1990 147:855-860.

30. Lopez OL, Swihart AA, Becker JT, Reinmuth OM, Reynolds CF, Rezek DL, Daly FL. Reliability of NINCDS-ADRDA clinical criteria for the diagnosis of Alzheimer's disease. *Neurology*. 1990 40:1517-1522.
31. Boller F, Becker JT, Holland AL, Forbes MM, Hood PC, McGonigle KL. Predictors of decline in Alzheimer's disease. *Cortex*. 1991 27:9-17.
32. Lopez OL, Becker JT, Boller F. Motor impersistence in Alzheimer's disease. *Cortex*. 1991 27:93-99.
33. Becker JT. Methodologic considerations in assessing cognitive function in Chronic Fatigue Syndrome. *Rev Infectious Dis*. 1991 13/S1:S112-S113.
34. Penkower L, Dew MA, Kingsley L, Becker JT, Satz P, Schaerf FW, Sheridan K. Behavioral, health and psychosocial factors and risk for HIV infection among sexually active homosexual men: The Multi-Center AIDS Cohort Study. *Amer J Pub Health*. 1991 81:194-196.
35. Lopez OL, Becker JT, Brenner RP, Rosen J, Bajulaiye OI, Reynolds CF. Alzheimer's disease with delusions and hallucinations: Neuropsychological and electroencephalographic correlations. *Neurology*. 1991 41:906-912.
36. Selnes OA, Jacobson L, Machado AM, Becker JT, Wesch J, Miller EN, Visscher B, McArthur JC. Normative data for a brief neuropsychological screening battery. *Perc Motor Skills*. 1991 73:539-550.
37. Becker JT, Bass SM, Dew MA, Kingsley L, Selnes OA, Sheridan K. Hand Preference, Immune System Disorder and Cognitive Function Among Gay/Bisexual Men: The Multicenter AIDS Cohort Study (MACS). *Neuropsychologia*. 1992 30:229-235.
38. Becker JT, Bajulaiye OI, Smith C. Longitudinal analysis of a two component model of the memory deficit in Alzheimer's disease. *Psychol Med*. 1992 22:437-446.
39. Lopez OL, Becker JT, Rezek D, Wess J, Boller F, Reynolds CF, Panisset M. Neuropsychiatric correlates of cerebral white matter radiolucencies in Probable Alzheimer's disease. *Arch Neurol*. 1992 49:826-834.
40. Davidson S, Dew MA, Penkower L, Becker JT, Kingsley L, Sullivan P. Substance use and sexual behavior among homosexual men at risk for HIV infection: Psychosocial moderators. *Psychol Health*. 1992 7:259-272.
41. Becker JT, Lopez OL, Wess J. Material specific memory loss in Probable Alzheimer's disease. *J Neurol Psych Neurosurg*. 1992 55:1177-1181.

42. Becker JT, Wess J, Hunkin NM, Parkin AJ. Use of temporal context information in Alzheimer's disease. *Neuropsychologia*. 1993 31:137-143.
43. Grossi D, Becker JT, Smith C, Trojano L. Memory for visuospatial patterns in Alzheimer's disease. *Psychol Med*. 1993 23:65-70.
44. Colantonio A, Becker JT, Huff FJ. Factor structure of the Mattis Dementia Rating Scale among patients with Probable Alzheimer's disease. *Clin Neuropsychol*. 1993 7:313-318.
45. Satz P, Morgenstern H, Miller EN, Selnes OA, McArthur JC, Cohen BA, Wesch J, Becker JT, Jacobson L, D'Elia LF, van Gorp W, Visscher B. Low education as a possible risk factor for early cognitive abnormalities in HIV-1: Findings from the Multicenter AIDS Cohort Study (MACS). *JAIDS*. 1993 6:503-511.
46. Rosen J, Colantonio A, Becker JT, Lopez OL, Moss HB, DeKosky ST. Effects of a history of heavy alcohol consumption on Alzheimer's disease. *Brit J Psychiatry*. 1993 163:358-363.
47. McArthur JC, Hoover DR, Bacellar H, Miller EN, Cohen BA, Becker JT, Graham NMH, McArthur JH, Selnes OA, Jacobson LP, Visscher BR, Concha M, Saah A. Dementia in AIDS patients: Incidence and risk factors. *Neurol*. 1993 43:2245-2251.
48. Sullivan PF, Becker JT, Dew MA, Penkower L, Detels R, Hoover DR, Kaslow R, Palenicek J, Wesch JE. Longitudinal trends in the use of illicit drugs and alcohol in the Multicenter AIDS Cohort Study. *Addiction Research*. 1993 1:279-290.
49. Lopez OL, Becker JT, DeKosky ST. Dementia accompanying motor neuron disease. *Dementia*. 1994 5:42-47.
50. Becker JT, Boller F, Lopez OL, Saxton J, McGonigle K. The natural history of Alzheimer's disease: I. Description of study cohort and accuracy of diagnosis. *Arch Neurol*. 1994 51:585-594.
51. van Gorp WG, Miller EN, Marcotte TD, Dixon W, Paz D, Selnes O, Wesch J, Becker JT, Hinkin CH, Mitrushina M, Satz P, Weisman JD, Buckingham SL, Stenquist PK. The relationship between age and cognitive impairment in HIV-1 infection: Findings from the Multicenter AIDS Cohort Study and a Clinical Cohort. *Neurol*. 1994 44:929-935.
52. Grossi D, Becker JT, Trojano L. Visuospatial imagery in Alzheimer's disease. *Perceptual and Motor Skills*. 1994 78:867-874.

53. Lopez OL, Larumbe R, Becker JT, Rezek D, Rosen J, Klunk W, DeKosky ST. Reliability of the NINDS/AIREN criteria for the diagnosis of Vascular Dementia. *Neurology*. 1994 44:1240-1245.
54. Lopez OL, Becker JT, Somsak D, Dew MA. Awareness of cognitive deficits and anosognosia in Alzheimer's disease. *European Neurology*. 1994 34:277-282.
55. Lopez OL, Becker JT, Dew MS, Banks G, Dorst SK, McNeil M. Speech motor control disorder after HIV infection. *Neurol*. 1994 44:2187-2189.
56. Becker JT, Mintun MA, Diehl D, Martidis A, DeKosky ST, Dobkin J. Functional neuroanatomy of verbal free recall: A replication study. *Human Brain Mapping*. 1994 1:284-292.
57. Bacellar H, Munoz A, Miller E, Cohen B, Besley D, Selnes O, Becker JT, McArthur JC. Temporal trends in the incidence of HIV-1 related neurologic diseases: Multicenter AIDS Cohort Study, 1985-1992. *Neurology*. 1994 44:1892-1900.
58. Robins AG, Dew MA, Davidson S, Penkower L, Becker JT, Kingsley L. Psychosocial factors associated with risky sexual behavior among HIV-seropositive gay men. *AIDS Education and Prevention*. 1994 6:483-492.
59. Uchiyama CL, D'Elia LF, Dellinger AM, Selnes OA, Becker JT, Wesch JE, Chen BB, Satz P, van Gorp W, Miller EN. Longitudinal comparison of alternate versions of the Symbol Digit Modalities Test: Issues of comparability and moderating demographic variables. *Clin Neuropsychol*. 1994 8:209-218.
60. Becker JT, Caldararo R, Baddeley AD. Methodological considerations in estimating speed of cognitive operations. *J Inter Neuropsychol Society*. 1995 1:3-9.
61. Selnes OA, Galai N, Bacellar H, Miller EN, Becker JT, Wesch J, Van Gorp W, McArthur JC. Cognitive performance after progression to AIDS: A longitudinal study from the Multicenter AIDS Cohort Study. *Neurology*. 1995 45:267-275.
62. Becker JT, Caldararo R, Lopez OL, Dew MA, Dorst S, Banks G. Qualitative features of the memory deficit associated with HIV infection and AIDS: Cross-validation of a discriminant function classification scheme. *J Clin Exp Neuropsychol*. 1995 17:134-142.
63. Lopez OL, Larumbe MR, Becker JT, Martinez-Lage JM, Boller F. Difficulties in the differential diagnosis between Creutzfeldt-Jakob disease of long duration and Alzheimer's disease. *Neurologia (Spain)*. 1995, 10:37-40.

64. Becker JT, Lopez OL, Boller F. Understanding impaired analysis of faces by patients with Probable Alzheimer's disease. *Cortex*. 1995 31:129-137.
65. Uchiyama CL, D'Elia LF, Dellinger AM, Becker JT, Selnes OA, Wesch JE, Chen BB, Satz P, van Gorp W, Miller EN. Alternate forms of the Auditory-Verbal Learning Test: Issues of Test Comparability, Longitudinal Reliability, and Moderating Demographic Variables. *Arch Clin Psychol*. 1995 10:133-145.
66. Lopez OL, Becker JT, Jungreis CA, Rezek D, Estol C, Boller F, DeKosky ST. Computed tomography-but not magnetic resonance imaging- identified periventricular white-matter lesions predict symptomatic cerebrovascular disease in Probable Alzheimer's disease. *Arch Neurol*. 1995 52:659-664.
67. Lopez OL, Becker JT, Klunk W, DeKosky ST. The nature of behavioral disorders in Kluver-Bucy Syndrome. *Neuropsychiat, Neuropsychol, Behav Neurol*. 1995 8:215-221.
68. Lopez OL, Brenner RP, Becker JT, Jungreis CA, Rezek D, DeKosky ST. Electroencephalographic correlates of periventricular white-matter lesions in probable Alzheimer's disease. *Dementia*. 1995 6:343-347.
69. Penkower L, Dew MA, Kingsley L, Zhou SY, Lyketsos CG, Wesch J, Senterfitt JW, Hoover DR, Becker JT. Alcohol consumption as a cofactor in the progression of HIV infection and AIDS. *Alcohol*. 1995 12:547-552.
70. Lopez OL, Gonzalez MP, Becker JT, Reynolds CF, Sudilovsky A, DeKosky ST. Symptoms of depression in Alzheimer's disease, frontal lobe-type dementia, and subcortical dementia. *Ann NY Acad Scien*. 1995 769:389-392.
71. Lopez OL, Becker JT, Banks G, Giconi J, Sanchez J, Dorst S. Development of subtle neurological signs after systemic illness in HIV-infected individuals. *European Neurol*. 1996 36:71-75.
72. Becker JT, Mintun MA, Aleva K, Wiseman MB, Nichols T, DeKosky ST. Compensatory reallocation of brain resources supporting verbal episodic memory in Alzheimer's disease. *Neurology*. 1996 46:692-700.
73. Butters MA, Lopez OL, Becker JT. Focal temporal lobe dysfunction in Probable Alzheimer's disease predicts a slow rate of cognitive decline. *Neurology*. 1996 46:687-692.
74. Lopez OL, Gonzalez MP, Becker JT, Reynolds CF, Sudilovsky A, DeKosky ST. Symptoms of depression and psychosis in Alzheimer's disease and frontotemporal dementia: Exploration of underlying mechanisms. *Neuropsychiat, Neuropsychol Behav Neurol*. 1996 9(3):154-161.

75. Herbster AN, Nichols TE, Wiseman M, Mintun MA, DeKosky ST, Becker JT. Functional connectivity in auditory-verbal short-term memory in Alzheimer's disease. *NeuroImage*. 1996 4:67-77.
76. Ganguli R, Carter CS, Mintun M, Brar JS, Becker JT, Sarma R, Nichols T, Bennington E. PET brain mapping study of auditory verbal supraspan memory versus visual fixation in schizophrenia. *Biological Psychiatry*. 1997 41:33-42.
77. Dew MA, Becker JT, Sanchez J, Caldararo R, Lopez OL, Giconi J, Dorst S, Banks G. Prevalence and predictors of depressive, anxiety, and substance use disorders in HIV-infected and uninfected men: A longitudinal evaluation. *Psychol Med*. 1997 27:395-409.
78. Lopez OL, Becker JT, Jungreis CA, Weidman S, Reynolds CF, DeKosky ST. Psychiatric correlates of MR deep white-matter lesions in Probable Alzheimer's disease. *J Neuropsychiat Clin Neurosc*. 1997 9:246-250.
79. Lopez OL, Brenner RP, Becker JT, Ulrich RF, Boller F, DeKosky ST. EEG spectral abnormalities and psychosis as predictors of cognitive and functional decline in Probable Alzheimer's disease. *Neurology*. 1997 48:1521-1525.
80. Herbster AN, Mintun MA, Nebes RD, Becker JT. Regional cerebral blood flow during word and nonword reading. *Human Brain Mapping*. 1997 5:84-92.
81. Lopez OL, Berthier M, Becker JT, Boller F. Creutzfeldt-Jakob disease with features of obsessive-compulsive disorder and anorexia nervosa: The role of cortical-subcortical systems. *Neuropsychiat, Neuropsychol Behav Neurol*. 1997 10:120-124.
82. Robins AD, Dew MA, Kingsley L, Becker JT. Do homosexual and bisexual men who place others at potential risk for HIV have unique psychosocial profiles. *AIDS Education Prevention*. 1997 9: 239-251.
83. Lopez OL, Wisniewski S, Becker JT, Boller F, DeKosky ST. Extrapyrarnidal signs in patients with probable Alzheimer's disease. *Arch Neurol*. 1997 54(8):969-975.
84. Becker JT, Sanchez J, Dew MA, Lopez OL, Dorst SK, Banks G. Neuropsychological abnormalities among HIV-infected individuals in a community-based sample. *Neuropsychology*. 1997 11:592-601.
85. Lopez OL, Becker JT, Kamboh MI, Kaufer DI, DeKosky ST. The apolipoprotein E 4 allele is not associated with extrapyramidal signs or psychiatric symptoms in probable AD. *Neurology*. 1997 49:794-797.

86. Graham KS, Becker JT, Hodges JR. On the relationship between knowledge and memory for pictures: Evidence from the study of patients with semantic dementia and Alzheimer's disease. *J Inter Neuropsychol Soc.* 1997 3:534-544.
87. Salthouse TA, Becker JT. Independent effects of Alzheimer's disease on neuropsychological functioning. *Neuropsychology.* 1998 12:242-252.
88. Zelkowitz BJ, Herbster AN, Nebes RD, Mintun MA, Becker JT. An examination of regional cerebral blood flow during object naming tasks. *J Inter Neuropsychol Soc.* 1998 4:160-166.
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90. Lopez OL, Wess J, Sanchez J, Dew MA, Becker JT. Neurobehavioral correlates of perceived mental and motor slowness in HIV infection and AIDS. *J Neuropsychiat Clin Neurosci.* 1998 10:343-350.
91. Wess JA, Lopez OL, Becker JT, Sanchez J, Dew MA. A self-report scale for mental and motor slowness: Preliminary results. *Clin Neuropsychol.* 1998 12(1):92-100.
92. Lopez OL, Brenner RP. Becker JT, Ulrich RF, DeKosky ST. Electroencephalography and survival in patients with Alzheimer's disease (Letter). *Neurology.* 1998 51:918-919.
93. Becker JT, Milke R. Cognition and aging in a complex work environment: Relationships with performance among air traffic control specialists. *Aviation, Space and Environmental Medicine.* 1998 69:944-951.
94. Lopez OL, Lopez-Pousa S, Kamboh MI, Adroer R, Oliva R, Lozano-Gallego M, Becker JT, DeKosky ST. Apolipoprotein E Polymorphism in Alzheimer's disease: A comparative study of two research populations from Spain and the United States. *European Neurology.* 1998 39, 229-233.
95. Lopez OL, Wess J, Sanchez J, Dew MA, Becker JT. Neurological characteristics of HIV-infected men and women seeking primary medical care. *Eur J Neurol.* 1999 6:1-5.
96. Dickey WC, Dew MA, Becker JT, Kingsley L. Combined effects of HIV-infection status and psychosocial vulnerability on mental health in homosexual men. *Social Psychiatry and Psychiatric Epidemiology.* 1999 34: 4-11.

97. Becker JT, Salthouse TA. Neuropsychological test performance in the acquired immunodeficiency syndrome: Independent effects of diagnostic group on functioning. *J Inter Neuropsychol Society*. 1999 5:41-47.
98. Ricci PT, Zelkowitz BJ, Nebes RD, Meltzer CC, Mintun MA, Becker JT. Functional neuroanatomy of semantic memory: Recognition of semantic associations. *NeuroImage*. 1999 9:88-96.
99. Wiseman MB, Sanchez JA, Buechel C, Mintun MA, Lopez OL, Milko D, Becker JT. Patterns of relative cerebral blood flow in minor cognitive motor disorder in HIV infection. *J Neuropsychiat Clin Neurosci*. 1999 11:222-233.
100. Childs EA, Lyles RH, Selnes OA, Chen B, Miller EN, Cohen BA, Becker JT, Mellors J, McArthur JC. Plasma viral load and CD4 lymphocytes as predictors of HIV-associated dementia and sensory neuropathy. *Neurology*. 1999 52:607-613.
101. Sacktor NC, Lyles RH, Skolasky RL, Anderson DE, McArthur JC, McFarlane G, Selnes OA, Becker JT, Cohen B, Wesch J, Miller EN. Combination antiretroviral therapy improves psychomotor speed performance in HIV-seropositive homosexual men. *Neurology*. 1999 52:1640-1647.
102. Conway MA, Turk JD, Miller SL, Logan J, Nebes RD, Meltzer CC, Becker JT. A positron emission tomography (PET) study of autobiographical memory retrieval. *Memory*. 1999 7(5/6):679-702.
103. Lopez OL, Wisniewski SR, Becker JT, Boller F, DeKosky ST. Psychiatric medication and abnormal behavior as predictors of progression in probable Alzheimer's disease. *Arch Neurol*. 1999 56:1266-1272.
104. Becker JT, Morris RG. Working memory(s). *Brain and Cognition*. 1999 41:1-8.
105. Becker JT, MacAndrew DK, Fiez JA. A comment on the functional localization of the phonological storage subsystem of working memory. *Brain and Cognition*. 1999 41: 27-38.
106. Lopez OL, Smith G, Meltzer CC, Becker JT. Dopamine systems in human immunodeficiency virus-associated dementia. *Neuropsychiat, Neuropsychol Behav Neurol*. 1999 12(3):184-192.
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111. Lopez OL, Becker JT, Klunk W, Saxton J, Hamilton RL, Kaufer D, Sweet R, Meltzer CC, Wisniewski S, Kamboh MI, DeKosky ST. Research evaluation and diagnosis of probable Alzheimer's disease over the last two decades: I. *Neurology*. 2000 55:1854-1862.
112. Lopez OL, Becker JT, Klunk W, Saxton J, Hamilton RL, Kaufer D, Sweet R, Meltzer CC, Wisniewski S, Kamboh MI, DeKosky ST. Research evaluation and diagnosis of possible Alzheimer's disease over the last two decades: II. *Neurology*. 2000, 55:1863-1869.
113. Butters MA, Becker JT, Nebes RD, Zmuda MD, Mulsant BH, Pollock BG, Reynolds CF. Changes in cognitive functioning following treatment of late-life depression. *Am J Psychiatry*. 2000 157(12):1949-1954.
114. Lopez OL, Živković S, Smith G, Becker JT, Meltzer CC DeKosky ST. Psychiatric symptoms associated with cortical-subcortical dysfunction in Alzheimer's disease. *J Neuropsychiat Clin Neurosci*. 2001 13(1):56-60.
115. Lopez OL, Smith G, Becker JT, Meltzer CC, DeKosky ST. The psychotic phenomenon in probable Alzheimer's disease: A positron emission tomography study. *J Neuropsychiat Clin Neurosci*. 2001 13(1):50-55.
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117. Sacktor N, Tarwater PM, Skolasky RL, McArthur JC, Selnes OA, Becker JT, Cohen B, Miller EN for the Multicenter AIDS Cohort Study (MACS). CSF antiretroviral drug penetrance and the treatment of HIV-associated psychomotor slowing. *Neurology*. 2001 57:542-549.
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119. Lopez OL, Becker JT, Wisniewski S, Saxton J, Kaufer DI, DeKosky ST. Cholinesterase inhibitor treatment alters the natural history of Alzheimer's disease. *J Neurol Neurosurg Psychiatry*. 2002 72:310-314.
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149. Levine AJ, Hinkin CH, Miller EN, Becker JT, Selnes OA, Cohen BA. The utility of neurocognitive test/retest data derived from a non-clinical for detecting change among two HIV+ cohorts. *Journal of Clinical and Experimental Neuropsychology*. 2006 (In Press).
150. Lopez OL, Becker JT, Sweet RA, Sanz De La Garza CL. Non-cognitive symptoms in Mild Cognitive Impairment subjects: major depression, aggression, agitation, and psychosis. *Research and Practice in Alzheimer's Disease*. 2006 11, 205.
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152. Lopez OL, Becker JT, Sweet RA, Martin-Sanchez FJ, Hamilton RL. Lewy bodies in the amygdale increase risk for major depression in subjects with Alzheimer disease. *Neurology*. 2006 Aug 22; (67)4:660-5.
153. Thompson PM, Chiang MC, Dutton RA, Hayashi KM, Lopez OL, Aizenstein HJ, Toga AW, Becker JT. 3D mapping of ventricular and corpus callosum abnormalities in HIV/AIDS. *NeuroImage*. 2006 31(1):12-23.
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BOOK CHAPTERS AND INVITED PAPERS:

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Becker JT, Nebes RD, Boller F. Neuropsychological function in the normal elderly. In: Botez MI, editor. *Neuropsychologie Clinique et Neurologie du Comportement*. Montreal: Les Presses de L'Universite' de Montreal; 1987.

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Becker JT, Lopez O. Episodic Memory Loss in Alzheimer's disease: Breakdown of multiple memory processes. In: Backman L, editor. *Memory Functioning in Dementia*. Amsterdam: Elsevier Science Publishers; 1992. p. 27-43.

Lopez OL, Becker JT. Cerebrovascular disorders in Alzheimer's disease. In: Lopez-Pousa S, Manubens JM, Rocca WA, editors. Spanish Society of Neurology, Epidemiology of Vascular Dementia: Controversies in its diagnosis. J.R. Prous, S.A., 99-104, 1992.

Becker JT, Martin A, Lopez OL. The dementias and AIDS. In: Grant I, Martin A, editors. Neuropsychology of HIV Infection. New York: Oxford University Press; 1994. p. 133-145.

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Lopez OL, Becker JT. Patterns of progression in Alzheimer's disease. In: Vellas B, Garry P, Albareda J, editors. Facts and Research in Gerontology (Supplement): Dementia and Cognitive Impairment. New York: Springer-Verlag; 1994. p. 53-65.

Becker JT. Identification of neuropsychologically defined subgroups of Alzheimer's disease patients. In: Cermak L, editor. Neuropsychological Explorations of Memory and Cognition: Essays in Honor of Nelson Butters. New York: Plenum Press; 1994. p. 103-116.

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Ganguli R, Mintun MA, Becker JT, Brar JS, Diehl D, Deleo M, Madoff D, Martidis A. Effects of hydrocortisone infusion on rCBF in schizophrenic patients during a memory task. An O15 PET Study. Ann NY Acad Sci, 1994, 746, 385-7.

Lopez OL, Becker JT, DeKosky ST: Vascular dementia (Reply to Letter). Neurology. 1995 45:1424-1425.

Becker JT, Lopez OL, Butters MA. Episodic memory: Differential patterns of breakdown. In: Morris RG, editor. The Cognitive Neuropsychology of Alzheimer's Disease. London: Oxford University Press; 1996. p. 71, 71-88.

Becker JT, Mintun MA, Aleva K, Wiseman MB, Nichols T, Dekosky ST. Alterations in functional neuroanatomical connectivity in Alzheimer's disease. Positron emission tomography of auditory verbal short-term memory. Ann NY Acad Sci. 1996, 777, 239-42.

Butters MA, Soety E, Becker JT. Memory Rehabilitation. In: Nussbaum PD, editor. Handbook of Neuropsychology and Aging. STATE: Plenum Press; 1997. p. 515-527.

Graham KS, Becker JT, Patterson K, Hodges JR. Lost for words: A case of primary progressive aphasia. In: Parkin A, editor. Case Studies in the Neuropsychology of Memory. England: Psychology Press; 1997. p. 83-110.

Becker JT. Neuropsychological examination in patients with dementia. Rev Neurol, 1998, 27 (Suppl 1), S24-S26.

Becker JT. The study of brain functioning in Alzheimer's disease and normal individuals using positron emission tomography. Rev Neurol, 1998, 27 (Suppl 1), S30-S32.

Lopez OL, Becker JT. HIV infection and associated conditions. In: Snyder PJ, Nussbaum PD, editors. Clinical Neuropsychology: A Pocket Handbook for Assessment. American Psychological Association; 1998. p. 341-364.

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Becker JT, Overman A. The memory deficit in Alzheimer's disease. In: Badley A, Kopelman MD, Wilson BA, editors. The Handbook of Memory Disorders. 2nd ed. West Sussex, England: John Wiley & Sons; 2002. p. 569-590.

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Becker JT, Aizenstein H, Butters MA. Structural and Functional Neuroimaging Findings in Normal and Pathological Aging. In: Bush SS, Martin TA, editors. Geriatric Neuropsychology: Fundamentals for Practice. New York: Psychology Press, In Press.

Meltzer CC, Becker JT, Price JC, Moses-Kolko E. Positron Emission Tomography Imaging of the Aging Brain. Neuroimaging Clinics of North America: Neurologic Application of Positron Emission Tomography. 2003, 13, 759-768.

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Lopez OL, Kuller LH, Becker JT. Diagnosis, risk factors, and treatment of vascular dementia. *Curr Neurol Neurosci Rep*. 2004 4:358-367.

Liu Y, Teverovskiy L, Carmichael O, Kikinis R, Shenton M, Carter CS, Stenger VA, Davis S, Aizenstein H, Becker JT, Lopez O, Meltzer CC. Discriminative MR image feature analysis for Automatic Schizophrenia and Alzheimer's Disease Classification. In: Barillot C, Haynor DR, Hellier P, editors. *Proceedings of the 7th International Conference on Medical Image Computing and Computer Aided Intervention (MICCAI '04)*. Springer; 2004. p. 393-401.

Carmichael O, Aizenstein H, Davis S, Becker JT, Thompson P, Meltzer C, Liu Y. Atlas-Based Hippocampus Segmentation in Alzheimer's Disease and MCI. Technical Report, CMU-RI-TR-04-53, Robotics Institute, Carnegie Mellon University, Pittsburgh, PA, 2004.

Lopez OL, Becker JT, Sweet RA, Sanz de la Garza CL. Non-cognitive symptoms in mild cognitive impairment subjects: Major depression, aggression, agitation, and psychosis. In: Vellas B, editor. *Research and Practice in Alzheimer's Disease*. Paris: Serdi Publishers; 2005.

Carmichael OT, Thompson PM, Dutton RA, Lu A, Lee SE, Lee JY, Kuller LH, Lopez OL, Aizenstein HJ, Meltzer CC, Liu Y, Toga AW, Becker JT. Mapping Ventricular Changes Related to Dementia and Mild Cognitive Impairment in a Large Community-Based Cohort. *Proceedings, IEEE International Symposium on Biomedical Imaging*, April 2006.

Leow A, Huang SC, Geng A, Becker JT, Davis S, Toga AW, Thompson PM. Inverse Consistent Mapping in 3D Deformable Image Registration: Its Construction and Statistical Properties. *Lecture Notes in Computer Science*. 2005. p. 3565: 493.

PROFESSIONAL ACTIVITIES

TEACHING:

- | | |
|---------|---|
| 1984-88 | Neurobehavior Section of Resident Seminar Series in the Department of Neurology (with Dr. Francois Boller). |
| 1984 | Lecture at Mayview State Hospital (OERP), Assessment of Alzheimer's Disease |
| 1986 | Neuropsychology and Alzheimer's Disease, OERP teleconference. |

- 1986-90 Annual Lecture in Psychogeriatric Series, W.P.I.C.
- 1986-94 Annual Lecture in Clinical Neuropsychology, Clinical Psychology Training Program, Highland Drive VAMC.
- 1987-90 Annual Visiting/Teaching Attending, Geriatric Inpatient Unit, W.P.I.C.

TRAINEES:

- 1984-1985 Munir El-Awar, M.D.
- 1985-1986 Janet Teodori, M.D.; Gary Moak, M.D.
- 1985-1991 Judith Saxton, Ph.D. (Dissertation)
- 1986-1987 Mark Hurtt, M.D.; Federica Lucchelli, M.D.
- 1987-1990 Michel Panisset, M.D.
- 1989-1990 Rotimi Bajuliaye, M.D.
- 1989-1991 Patrick Sullivan, M.D.
- 1991 Denise Somsak (Mellon Fellow)
- 1987-1991 Oscar Lopez, M.D.
- 1991-1994 Suzanne Davidson (Pre-doctoral)
- 1992-1995 Anthony Robins (Pre-doctoral)
- 1995 Gregor Cantlay¹
- 1995 Ben Zelkowicz
- 1995-1996 Amy Palmer Herbster²
- 1997 Jessica Logan¹
- 1997-1999 David Turk¹
- 1997-1999 Shannon Miller²
- 1998 Kelly Derepentigny¹
- 1998-1999 Danean MacAndrew³
- 1999 Tom Yufik¹
- 1999-present Amy A. Overman³
- 2000 Simon Davis¹
- 2000-Present Meryl Butters, Ph.D. (K-Award)
- 2000-2002 Sandra Bell McGinty, Ph.D. (Post-Doctoral)
- 2002-Present Cameron McGavin⁴
- 2003-Present Howard Aizenstein, M.D., Ph.D. (K-Award)
- 2004-Present Elizabeth Skidmore, Ph.D.
- 2004-Present Jamie Seaman
- 2005-Present Krystle Berryman
- 2005-Present Ari Gildengens, M.D.

¹Center for the Neural Basis of Cognition (CNBC) Summer Fellow

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CURRENT RESEARCH FUNDING:

<u>Grant Number</u>	<u>Grant Title</u>	<u>Role, % Effort</u>	<u>Years</u>	<u>Source, Amount</u>
R01AG21431	Age Moderates HIV-Related CNS Dysfunction	Principal Investigator, 40%	2002-2006	NIA, \$224,749
U01AI035041	Multicenter AIDS Cohort Study	Co-I, 5%	2004-2009	NIAID, \$45,945
P01AG05133	Alzheimer's Disease Research Center, Neuroimaging Core	Associate Center Director; Co-Director Neuroimaging Core, 5%	1985-2010	NIA, \$3,827
P50AG05133	Alzheimer's Disease Research Center Administrative Core	Co-I, 5%	1985-2010	NIA, \$12,800
R01HD42386	fMRI and Sports-Related Concussion	Co-I, 10%	2001-2006	NIA, \$367,704
R01AG20098	Alzheimer's Disease in Mild Cognitive Impairment	Co-I, 20%	2002-2007	NIA, \$308,210
R21MH075259	Pet Imaging of Amyloid in the HIV Brain	Co-I, 5%	2005-2010	NIH, \$4,959
R01MH072947	Pathways Linking Late-Life Depression To MCI & Dementia	Co-I, 5%	2005-2010	NIMH, \$250,000

RESEARCH RELATED ACTIVITIES:

- 1987-Present Ad-Hoc Reviewer: Department of Veteran's Affairs Merit Review Board (Behavioral Sciences)
- 1988 Ad-Hoc Member: Veteran's Administration Merit Review Board (Behavioral Sciences)
- 1988 Temporary Advisor: World Health Organization - Global Programme on AIDS

- 1988 Expert Witness: Armed Forces Epidemiology Board, U.S. Department of Defense
- 1989-Present Ad-Hoc Reviewer: Alzheimer's Disease and Related Disorders Association;
Journal Referee: Neurology, Stroke; Physiology and Behavior; Pharmacology; Biochemistry and Behavior; Western Journal of Medicine; Clinical Neuropsychologist; Annals of Neurology; Journal of Clinical and Experimental Neuropsychology; Brain Research Bulletin; Quarterly Journal of Experimental Psychology; Learning and Motivation
- 1990 Ad-Hoc Reviewer, NIMH AIDS Program, Contracts Office
- 1990-1996 Member, NIMH Advisory Committee on Neuropsychological Issues in HIV Infection
- 1991-1994 Member, Department of Veteran's Affairs Merit Review Board (Mental Health and Behavioral Sciences)
- 1992-1999 Consulting Editor, Neuropsychology, (American Psychological Association Journal)
- 1992-Present Member, Scientific Advisory Board, HIV Neurobehavioral Research Center, UCSD
- 1995 Ad-Hoc Member, HUD-2 (NIH) Initial Review Group
- 1996-2001 Member, Extended Advisory Committee, Research Training in the Dementias of Aging Training Program, Department of Psychiatry and Behavioral Sciences, Johns Hopkins School of Medicine.
- 1998-Present Consulting Editor, Journal of Clinical and Experimental Neuropsychology
- 1999-2000 Associate Editor, Journal of the International Neuropsychological Society
- 2000-2001 Acting Associate Editor, Neuropsychology, (American Psychological Association Journal)
- 2001-2002 Incoming Editor, Neuropsychology, (American Psychological Association Journal)
- 2002-2007 Editor, Neuropsychology, (American Psychological Association Journal)

RESEARCH RELATED INTERNATIONAL COLLABORATIONS:

- 1987-1989 Barbara Wilson, Ph.D., University Department of Rehabilitation, Southampton Hospital, Southampton, United Kingdom, (NATO funded)
- Hans Spinnler, M.D., University of Milan, Department of Neurology, Milan, Italy (NATO, later ADRDA - funded)
- 1987-1997 Alan Baddeley, Ph.D., MRC-Applied Psychology Unit, Cambridge, United Kingdom (NATO, later ADRDA - funded)
- 1990-1992 Alan Parkin, D.Phil., Laboratory of Experimental Psychology, University of Sussex, Brighton, United Kingdom
- 1993-2002 John R. Hodges, M.D., Karalyn Patterson, Ph.D., MRC Applied Psychology Unit, Cambridge, United Kingdom
- 1997-2002 Martin Conway, Professor of Psychology, University of Bristol, United Kingdom
- 2002-Present Instituto Catala Neurociencias Aplicades, Barcelona (ES)

SERVICE:

- 1989 Member, Program Committee, Annual Meeting, International Neuropsychological Society
- 1988-1996 Member, Institutional Review Board for Psychosocial Research, University of Pittsburgh
- 1994-1996 Chair, Program Committee, Annual Meeting, International Neuropsychological Society (February, 1996)
- 1995-Present Member, Human Factors Committee, Aerospace Medical Association
- 2004-Present American Board of Clinical Neuropsychology, Board of Directors