

CURRICULUM VITAE
RONALD A. COHEN, PHD, ABPP, APCN
MCKNIGHT PROFESSOR
DEPARTMENTS OF AGING AND GERIATRIC RESEARCH,
NEUROLOGY AND PSYCHIATRY
AND
DIRECTOR
CENTER FOR COGNITIVE AGING AND MEMORY
UNIVERSITY OF FLORIDA

PERSONAL PROFILE

Business Address: Cognitive Aging and Memory Program
McKnight Institute on Aging
University of Florida
Gainesville, FLA, 32608
Telephone Number: 352-294-5840 x86620
Business Fax: 352-265-8059
E-Mail: roncohen@ufl.edu; rac@brown.edu

EDUCATION

1976 B.Sc. (with honors) in Psychology, Tulane University
1982 Ph.D. in Psychology, Louisiana State University
Specialty: Clinical Psychology/ Neuropsychology

POSTGRADUATE TRAINING

1981-1982 Internship in Clinical Psychology. Neuropsychiatric Institute, UCLA Medical School.
Medical Psychology Specialization: Neuropsychology, Behavioral Medicine (American Psychological Association Accredited)
1982-1983 Post-doctoral Fellow, Neuropsychology. Univ. of Florida, Gainesville, FLA.

PROFESSIONAL LICENSES AND BOARD CERTIFICATION

2012-Present Florida License for Independent Practice in Clinical Psychology, License #5250
1983-1996 Massachusetts License for Independent Practice in Clinical Psychology, License #3723
1993-Present RI License for Independent Practice in Clinical Psychology, License #496.
1995 Diplomate: American Board Professional Psychology:
American Board of Clinical Neuropsychology

ACADEMIC APPOINTMENTS

2013-Present Adjunct Professor, Warren Alpert School of Medicine, Brown University
2012-Present Professor, Aging-Geriatric Research, Neurology and Psychiatry, University of Florida
2004-2013 Professor, Warren Alpert School of Medicine, Brown University
1996-2004 Associate Professor, Warren Alpert School of Medicine, Brown University
1993-1996 Assistant Professor, Warren Alpert School of Medicine, Brown University
1992-1993 Associate Professor, Neurology and Psychiatry, Univ. Massachusetts Medical School
1990-1993 Assistant Professor, Neuroscience Program, Univ. Massachusetts Medical School
1992-1994 Associate Adjunct Professor of Psychology, Holy Cross College

1984-1993 Adjunct Assistant Professor of Psychology, Clark University
1989-1993 Adjunct Assistant Professor, Behavioral Neuroscience, Univ. Massachusetts
1983-1992 Assistant Professor of Neurology and Psychiatry, University of Massachusetts Medical School

UNIVERSITY/HOSPITAL APPOINTMENTS

2012-Present Director, Cognitive Aging and Memory Program , University of Florida
2008-2012 Senior Neuropsychologist, Director of Neuropsychological Research Centers for Behavioral Medicine, The Miriam Hospital
1993-2008 Director of Neuropsychology Program, The Miriam Hospital
1988-1993 Director of Neuropsychology, University Massachusetts Medical Center
1992-Present Research Neuropsychologist, Central Massachusetts Medical Center
1985-1990 Neuropsychological Consultant, Milford Hospital
1983-1990 Co-Director, Headache Clinic, Neurology, UMMC
1983-1991 Consultant, Dizziness Clinic,
1983-1993 Neuropsychologist, UMMC

ACADEMIC AND HOSPITAL COMMITTEES

2012-Present Leadership Council, McKnight Brain Institute,
2003-Present Faculty Development Committee, Department of Psychiatry and Human Behavior Brown University School of Medicine
2001-Present Brain Science Program, Brown University
2000-Present Brain Sciences Program, Executive Committee, Department of Psychiatry, Brown Univ.
2000-Present Magnetic Resonance Foundation (MRF) Executive Committee, Brown University
1998-Present Alzheimer's Disease Center Steering Committee
1994-Present Geriatric Research Planning Committee, Department of Psychiatry and Human Behavior, Brown University School of Medicine
1994-Present Cerebrovascular Disease Neurobehavioral Research Committee, Department of Psychiatry and Human Behavior, Brown University School of Medicine
1994-Present Consultation-Liaison, Behavioral Medicine Planning Team, Miriam Hospital
1994-1999 Brain Bank Committee, Department of Psychiatry and Human Behavior, Brown University School of Medicine
1993-Present Neuropsychology Consortium Training Committee, Department of Psychiatry and Human Behavior, Brown University School of Medicine
1993-Present Behavioral Medicine Training Committee, Department of Psychiatry and Human Behavior, Brown University School of Medicine
1993-Present Memory and Cognitive Disorders Program, The Miriam.
1990-1993 Psychology Credentials Committee, UMMC.
1988-1993 Neuroscience Steering Committee, UMMC.
1985-1993 Psychology Training Committee, UMMC.
1985-1993 Alzheimer's and Related Disorders Program, UMMC.

MEMBERSHIP IN SOCIETIES AND ORGANIZATIONS

International Neuropsychological Society
Society for Neuroscience
American Psychological Association
American Neuropsychiatric Society
American Academy of Neuropsychology

OTHER APPOINTMENTS

1999- Investigator, Alzheimer's Disease Cooperative Study: NIA

- 1995- Publication Committee, International Neuropsychological Society
- 1995- Program Committee, International Neuropsychological Society
Research Advisory Committee, APA-Division 40
- 1998-1992 Consultant, State Head Injury Program, Commonwealth of Massachusetts

NATIONAL SCHOLARLY ACTIVITIES- Reviewer

- 2014 Neurology, JINS, JCEN, Brain, Stroke....(14 journals total)
- 2013- Circulation, Neuroimage, Stroke
- 2007- Brain Research
- 2006- Annals of Neurology
- 2005- Biological Psychiatry
- 2003- Journal of Clinical and Experimental Neuropsychology
- 2002- CNS Spectrums
- 2002- Health Psychology
- 2001- Academic Press, Book Reviewer, Neuropsychology Series
- 1999- Violence and Victims
- 2000- Journal of Neuropsychiatry and Clinical Neuroscience
- 2000- Stroke
- 2000- 1998- Journal of International Neuropsychological Society
- 1998- Journal of Cardiac and Pulmonary Rehabilitation
- 1998 American Journal of Cardiology
- 1998 Archives of Neuropsychology
- 1995 Int. Journal of Neuroscience
- 1996- Psychiatry Research
- 1995- J. Geriatric Psychiatry & Neurology
- 1995- Archives Clinical Neuropsychology
- 1995 Annals of Behavioral Medicine
- 1993- Neurology
- 1985 Journal of Behavioral Medicine

Editorial Boards

- 2001- The Clinical Neuropsychologist
- 2002- Journal of the International Neuropsychological Society
- 2007- Brain Imaging and Behavior
- 2008- Stroke

National Investigational Review Groups

- 2012-2013 NIH HIV-Aging IRG
- 2007- 2012 NIH BMIO Study Section (Permanent Member)

- 2005-2007 NIH BMIO Study Section (Temporary Member)

- 2001- NIH-NIA (Ad Hoc IRG reviewer)
- 2001- NIH-NIDA (Ad Hoc reviewer): HIV and Drug Abuse: International Grants
- 2000- Department of Veterans Affairs (Ad Hoc Reviewer)
- 1999 - Alzheimer's Association. Review Panel

Grant Mentoring

- 1999 Robert Paul - F32 NINDS. Neurocognitive manifestations of myasthenia gravis
2000 Tricia Zawacki - F32 NINDS. Emotional Processing deficits associated with amygdala and mesial temporal lobe damage in herpes simplex and temporal lobe epilepsy
2000 Patricia Boyle - F32 NIA. Impairments of activities of daily living associated with Alzheimer's disease and vascular dementia
2001 Lawrence Sweet - F32 NINDS Working memory and processing speed deficits associated with multiple sclerosis
2002 Rebecca Ready - F32 NIA. Quality of life changes in MCI and AD
2002 Robert Paul – K08 NIDA.
2002 David Moser – K23 NIA. Endothelial function & neurocognitive functioning in the elderly
2003 Angela Jefferson – F32 NIA. Executive function disturbance and severity of heart failure
2003 John Gunstad – F32 NLHBI. Self perceived cognitive dysfunction with CABG
2003 David Tate – T32 CFAR. Neuroimaging changes in CD4 suppressed patients in India
2003 Adam Brickman – Research Intern. MRI Morphometry
2005 Karin Hoth – F32 Cardiovascular Disease
2006 Beth Jerskey – T32 Aging Fellowship
2006 Zohar Zephrani-Brown Univ. PhD Candidate Cognitive Psychology
2006 Andreeana Haley, HTN and FMRI
2006 Lawrence Sweet, HF and FMRI (RO1 awarded)
2006 David Williams, Exercise and FMRI
2007 Uraina Clark, HIV Supplement to current RO1
2008 Jason Hassenstab, NIH F32 Fellowship; FMRI & Metabolic syndrome
2009 Anna McKay. NIH F32 Fellowship. Attention training in older adults.
2009 Todd Levine, MD. NIH K-23 Application. FMRI: emotional processing in autism
2009 Assawin Gonvatana, NIAAA K99 award; Functional connectivity and DTI abnormalities in HIV
2011 Uraina Clark, K01, NIAAA Emotional processing associated with HIV and ETOH use
2013 Adam Woods, KL-2 award UF, Applications of t—DCS for cognitive aging
2013 Yonetta Dotson, NIA Pepper Career Development Award, Depression and Aging
2013 Nicole Whitehead (KL-2 submission UF), HIV, aging, depression and cognitive function
2014 Yenesil Cruz-Almeda, K-01 (Funded) K-01. Neural mechanisms of pain in the elderly
2014 Adam Woods, K-01 NIA Augmenting cognitive training using t-DCS
2014 Eric Porges, K-99, NIAAA. GABA as a modulator of ETOH effects on HIV-cognitive impairment.

Current Doctoral and Qualifying Examination Committees

- 1) Talia Seider: Primary Mentor, Chair
- 2) Vaughn Bryant, Primary Mentor Chair
- 3) Amanda Garcia: Primary mentor, Chair
- 4) Sunil Swamee, Committee member, mentor
- 5) Joshua Tosche: Committee member
- 6) Joshua Kirton, Committee member
- 7) Jacob Jones, Committee member

PUBLICATIONS IN PEER-REVIEWED JOURNALS

1977

1. **Cohen RA**, Izawa, C (1977) The effects of phonetic symbolism in paired associate learning. *Bulletin of the Psychonomic Society*.

1981

2. Kunen S, **Cohen, RA** (1981) A level of processing analysis of Bloom's Taxonomy. *Journal of Educational Psychology*.

1983

3. Williamson D, **Cohen, RA**, et al. (1983) A controlled evaluation of a self-help and therapist-assisted program for migraine and muscle contraction headache. *Headache*.
4. **Cohen RA**, Williamson D, Jarrell P, Monguillot J, Waters, WF. (1983). Psychophysiological response specificity and stereotypy for migraine and muscle contraction headache. *Journal of Behavioral Medicine*, 6:240-265.

1984

5. Waters WF, **Cohen RA**, Bernard, BA, Buceo, SM, Dreger, RM. (1984) ANRSI: An Autonomic Nervous System Response Inventory. *Journal of Behavioral Medicine*, 7(3):315-341.

1985

6. **Cohen**, RA, Waters, WF. (1985). Psychophysiological Correlates of Levels and States of Cognitive Processing, *Neuropsychologia*, 23(2):243-256.

1986

7. Zaret, B, **Cohen, RA** (1986). Reversible Valproic Acid-Induced Dementia; A Case Report. *Epilepsia*, 27(3):234-240.

1989

8. Recht LD, McCarthy K, O'Donnell, BF, **Cohen RA**, Drachman DA. (1989). Tumor associated aphasia in left hemisphere primary brain tumors: The importance of age and tumor Grade. *Neurology* 38:48-50.

1989

9. **Cohen RA**, Fisher M. (1989). Amantadine treatment of fatigue associated with Multiple Sclerosis. *Archives of Neurology*, 46, 676-680.

1990

10. Fisher, M, Levine PH, **Cohen, RA**. (1990). The effects of a 21-aminosteroid on free radical production by human leukocytes. *Stroke*, 21, 297-299.

1991

11. **Cohen, RA** and Albers, HE. (1991). Disruptions of human circadian and cognitive regulation following discrete hypothalamic lesion. *Neurology*, 41,726-729.
12. Lippa, CF, **Cohen, RA**, Smith TW, Drachman, DA. (1991) Primary progressive aphasia with focal neuronal achromasia. *Neurology*, 41, 882-886.
13. Fisher M, Levine PH, Doyle EM, Arpano, MM, Bergeron, DA, **Cohen, RA**, Hoogasian, JJ. (1991) A 21 aminosteroid inhibits stimulated monocyte hydrogen peroxide and chemiluminescence measurements from MS patients and controls. *Neurology*, 41,297-299.

1992

14. Kessler, HR, **Cohen, RA**, Lauer, K, Kausch, DF. (1992). The relationship between disability and memory dysfunction in multiple sclerosis. *International Journal of Neuroscience*, 62, 17-34.
15. Roman, GC, **Cohen, RA** et al (1992) Vascular dementia: Diagnostic criteria for research studies. Report of the NINDS-AIREN International Workshop. *Neurology*, 43,250-260.

1993

16. **Cohen, RA**, Kessler, HR, Fisher (1993). The extended disability status scale (EDSS) as a predictor of impairments of functional activities of daily living in multiple sclerosis. *Journal of the Neurological Sciences*, 48,112-116.

1994

17. **Cohen, RA**, Hasegawa, Y, Fisher, M. (1994). Effects of a novel NMDA receptor antagonist on experimental stroke quantitatively assessed by spectral EEG and infarct volume. *Neurological Research*, 16, 443-448.
18. **Cohen, RA**, Kaplan, RF, Meadows, ME, Wilkinson, H. (1994) Habituation & sensitization of the orienting response following bilateral anterior cingulotomy. *Neuropsychologia*, 32(5), 609-617.
19. O'Donnell, BF, **Cohen RA**, Hokama H, et al. (1994) Electrical source analysis of auditory ERPs in medial temporal lobe amnesic syndrome. *EEG Clin. Neurophysiol* 87, 394-402.
20. Kaplan RF, Meadows M-E, Verfaellie M, Kwan E, Ehrenberg BL, Bromfield EB, **Cohen RA**. (1994). Lateralization of memory for the visual attributes of objects: Evidence from the posterior cerebral artery amobarbital test. *Neurology*, 44(6):1069-1073.

1995

21. Kaplan RF, **Cohen RA**, Rosengard A, et al.(1995). Extinction during time controlled direct retinal stimulation following recovery from right hemisphere stroke. *Journal of Neurology, Psychiatry, Neurosurgery*, 59, 534-536.
22. **Cohen RA**, O'Donnell BF, Meadows ME, Moonis M, Stone W, Drachman DA. (1995). ERP indices and neuropsychological performance as predictors of functional outcome in dementia. *J. Geriatric Psychiatry and Neurology*, 8,217-225.

1996

23. **Cohen RA**, Kaplan RF, Meadows M-E, et al (1996). Comparison of the orienting response during the intracarotid and posterior cerebral artery amobarbital tests. *Neurocase*, 2, 93-98.

1997

24. **Cohen RA**, Barnes HJ, Jenkins M, Albers HE (1997). Disruption of short-duration timing associated with damage to the suprachiasmatic nucleus of the hypothalamus. *Neurology*, 48, 1533-1539.
25. Jenkins MA, Cimino C, Malloy PF, Salloway S, **Cohen RA**, Kohn R, Westlake R. (1997). Neuropsychiatric factors in the illusion of visitors among geriatric patients: a case series. *Journal of geriatric psychiatry and neurology* 10(2):79-87.

1998

26. Jenkins MA, Langais PJ, Delis D., **Cohen RA** (1998). Learning and memory in rape victims with posttraumatic stress disorder. *American Journal of Psychiatry*, 155(2), 278-279.
27. Moser DJ, **Cohen RA**, Maloy P, et al. (1998). Reduplicative paramnesia: A longitudinal neurobehavioral and neuroimaging analysis. *J Geriatric Psychiatry & Neurology*, 11(4), 174-180.
28. Lukatela K, Maloy P, **Cohen RA**. (1998). The naming deficits in early Alzheimer's disease and vascular dementia. *Neuropsychology*, 12(4), 1-8.
29. Jenkins M, Malloy P, Salloway S, **Cohen RA**, Rogg J, Tung G, Kohn R, Westlake R, Johnson EG, Richardson E.(1998). Memory processes in depressed geriatric patients with and without subcortical hyperintensities on MRI. *J Neuroimaging* 8(1):20-6.
30. Jenkins M, **Cohen RA**, Malloy P, et al. (1998). Neuropsychological measures which discriminate among adults with residual symptoms of attention deficit disorder and other attentional complaints. *The Clinical Neuropsychologist*, 12(1), 74-83.
31. Moser DJ, **Cohen RA**, Maloy P, et al. (1998). Reduplicative paramnesia: A longitudinal neurobehavioral and neuroimaging analysis. *Journal of Geriatric Psychiatry and Neurology*. 11(4):174-80.
32. **Cohen RA**. (1998) Disruption of short-duration timing associated with damage to the suprachiasmatic region of the hypothalamus: Reply from authors. *Neurology*, 51, 919-920.
33. Stern FA, Aruda JE, Sommerville JA, **Cohen RA**, et al. (1998). Neurobehavioral functioning in asymptomatic HIV-1 infected women. *Journal of the International Neuropsychological Society*, 4, 172-178.

1999

34. **Cohen RA**, Kaplan RF, Moser DJ, Jenkins MA, Wilkinson H. (1999). Impairments of attention following cingulotomy. *Neurology*, 53, 819-824.
35. **Cohen RA**, Kaplan RF, Moser DJ, Zuffante P, Jenkins MA (1999). Attention and executive functioning associated with bilateral anterior cingulotomy: Alteration of intention and self-initiated action. *Journal of Neuropsychiatry and Clinical Neuroscience*, 11(4), 444-53.
36. **Cohen RA**, Rosenbaum A, Kane RL, Warnken WJ, Benjamin S. (1999) Neuropsychological correlates of domestic violence. *Violence and Victims*, 14(4): 397-411.
37. Moser DJ, **Cohen RA**, Clark M, et al. (1999) Neuropsychological functioning among cardiac rehabilitation patients. *Journal of Cardiopulmonary Rehabilitation*, 19 (2), 91-97.
38. **Cohen RA**, Moser DJ, Clark MM, Aloia MS, Cargill BR, Stefanik S, Albrecht A, Tilkemeier PL, Forman DE.(1999). Neurocognitive Functioning and Improvement in Quality of Life Following Participation in Cardiac Rehabilitation, *Am J Cardiology* 83(9): 1374-1378.

2000

39. Osoweicki D, **Cohen RA**, Morrow K, Paul R, Carpenter CJ, Flanigan T, Boland R. (2000). Neurocognitive and psychological contributions to quality of life in HIV-1 infected women. *AIDS* 14, 1327-1332.

40. Paul R, **Cohen RA**, Gilchrist J, Zawacki T, Aloia M. (2000). What have we learned about cognitive function in myasthenia gravis: A review of methods and results. *Neuroscience and Biobehavioral Reviews*, 25, 75-81.
41. Paul, R., **Cohen, RA.**, Gilchrist, J., Goldstein, J. (2000). Fatigue and its impact on patients with myasthenia gravis. *Muscle and Nerve* 23, 1402-1406. **PMID:10951443.**
42. Paul R, **Cohen RA**, Gilchrist J, Aloia M, Goldstein J. (2000). Cognitive dysfunction in individuals with myasthenia gravis. *Journal of the Neurological Sciences*, 179, 59-64. *PMID:11054486.*
43. Paul R, **Cohen RA**, Ott BR, Zawacki T, Moser D, Gordon N. (2000). Cognitive and functional capacity in two subtypes of vascular dementia. *Neurorehabilitation*, 15,199-205. *PMID: 11455096.*
44. Lukatela KA. **Cohen RA.** Kessler HA. Jenkins MA. Moser DJ. Stone WF. Gordon NF. Kaplan RF. (2000) Dementia rating scale performance: a comparison of vascular and Alzheimer's dementia. *Journal of Clinical & Experimental Neuropsychology*. 22(4),445-54. *PMID:10923054.*
45. Moser DM, **Cohen RA**, Bauer RM, et al. (2000) Electroencephalographic, volumetric, and neuropsychological indicators of seizure focus lateralization in temporal lobe epilepsy *Archives of Neurolog.* 57(5),707-12. *PMID:10815137.*
46. Rapcsak, S Z., Galper S R, Comer JF, Reminger SL, Nielsen L, Kaszniak, AW, Verfaellie M, Laguna JF, Labiner DM, **Cohen RA** (2000). Fear recognition deficits after focal brain damage: A cautionary note. *Neurology*. 54(3),575. *PMID:10680785.*
47. Paul R, **Cohen RA**, Toder J. (2000). Late onset hypersensitivity. Reply to Marino et al. *Arthritis Care and Research*, 12 (6), 435-436.

2001

48. Moser DJ. **Cohen RA.** Paul RH. Paulsen JS. Ott BR. Gordon NM. Bell S. Stone WM. (2001). Executive function and magnetic resonance imaging subcortical hyperintensities in vascular dementia. *Neuropsychiatry, Neuropsychology, & Behavioral Neurology*. 14(2),89-92. *PMID:11417671.*
49. **Cohen RA**, Paul, R, Brumm, V, Zawacki T, Sweet L. (2001). Emotional and personality changes following cingulotomy *Emotion*, 1(1), 38-50. *PMID:12894810.*
50. **Cohen RA**, Boland R, Paul R, Tashima K, Schoenbaum EE, Celentano DD, Schuman P, Smith DK, Carpenter C. (2001). Neurocognitive performance enhanced by highly active antiretroviral therapy in HIV-infected women. *AIDS* 15, 341-345. *PMID:11273214.*
51. **Cohen RA** (2001). From Theory to Application: Attention and Performance-XVII: Cognitive Regulation of Performance: Interaction of Theory and Application (Book Review). *Journal International Neuropsychological Society*, 7(6), 779-780.
52. Paul, RH, **Cohen, R.**, Moser, D., Ott., Gordon, N. (2001). Dementia severity and pattern of cognitive performance in vascular dementia. *Applied Neuropsychology*, 8(4), 211-217. *PMID:11989724.*
53. Paul R, **Cohen RA.** (2001). Cognitive and functional status in two subtypes of vascular dementia. *Neurorehabilitation*, 15(3), 199-205.

54. Paul RH. **Cohen RA**. Moser D. Ott BR. Zawacki T. Gordon N. Bell S. Stone W. (2001). Performance on the Mattis Dementia Rating Scale in patients with vascular dementia: relationships to neuroimaging findings. *Journal of Geriatric Psychiatry & Neurology*, 14(1), 3-6. *PMID:11417672*.
55. Paul R, **Cohen RA**, Ott BR, Zawacki T, Gordon N. (2001). Performance on the Dementia Rating Scale in vascular dementia: Relationship to neuroimaging findings. *Journal of Geriatric Psychiatry and Neurology*, 14, 33-36. *PMID:11281314*.
56. Paul, R.**Cohen, R**.Moser, D.Ott, B.Zawacki, T.Gordon, N.(2001). Performance on the Hooper Visual Organizational Test in patients diagnosed with subcortical vascular dementia: relation to naming performance *Neuropsychiatry Neuropsychol Behav Neurol* 14, 93-97. *PMID:11417672*.
57. Moser D, **Cohen RA**, Paul R, Gordon N, Ott BR. (2001). Executive function and magnetic resonance imaging subcortical hyperintensities in vascular dementia *Neuropsychiatry, Neuropsychology and Behavioral Neurology* 14, 89-92. *PMID:11417671*.
58. **Cohen RA**, Paul R, et al (2001). Single photon emission computed tomography imaging hyperintensities and cognitive impairment in patients with vascular dementia PET and neuropsychological findings in vascular dementia. *Journal of Neuroimaging*, 11(3), 253-260. *PMID:11462291*.
59. **Cohen RA**, Paul R, Lohr I. (2001). Impairments of attention in patients with major affective disorder. *Journal of Neuropsychiatry and Clinical Neurosciences*. 13, 385-395. *PMID:11514646*.
60. Paul RH. Nash JM. **Cohen RA**. Gilchrist JM. Goldstein JM. (2001). Quality of life and well-being of patients with myasthenia gravis. *Muscle & Nerve*. 24(4), 512-6. *PMID:11268023*.
61. Paul, R., **Cohen, R.**, Goldstein, J., Gilchrist, J. (2000). Severity of mood, self-evaluative, and vegetative symptoms of depression in myasthenia gravis. *Journal of Neuropsychiatry and Clinical Neurosciences*, 12(4), 499-501. *PMID: 11083168*.

2002

62. Paul, R., **Cohen, R**, Navia, B, Tashima, K. (2002). Relationships between neuropsychological function and neuroimaging in adults with human immunodeficiency virus type 1. *Neuroscience and Biobehavioral Reviews*, 26(3), 353-359. *PMID:12034135*.
63. **Cohen RA**, Paul R, Ott B, et al. (2002). The relationship of subcortical hyperintensities on MRI and brain volume to cognitive function in vascular dementia in vascular dementia. *Journal of the International Neuropsychological Society*, 8, 743-752. *PMID:12240738*.
64. Browndyke, J.N., Albert, A.L., Malone, W., Schatz, P., Paul, R.H., **Cohen RA.**, Tucker, K.A., & Gouvier, W.D. (2002). Computer-related Anxiety: Examining the Impact of Technology-specific Affect on the Performance of a Computerized Neuropsychological Assessment Measure. *Applied Neuropsychology*, 9(4), 210-219. *PMID:12584075*.
65. Paul, R., **Cohen RA.**, Moser, D., Ott, B. (2002). The serial position effect in vascular dementia. *Journal of the International Neuropsychological Society*. 8 (4): 584-587. *PMID:12030311*.
66. Boyle, P.A., **Cohen, RA.**, Paul, R., Moser, D., Gordon, N. (2002). Cognitive and motor impairments predict functional declines in patients with vascular dementia. *International Journal of Geriatric Psychiatry*, 17(2),164-169. *PMID:11813280*.

67. Paul RH, **Cohen RA**, Moser DJ, Zawacki T, Ott BR, Gordon N, Stone W. (2002). The global deterioration scale relationships to neuropsychological performance and activities of daily living in patients with vascular dementia. *Journal of Geriatric Psychiatry and Neurology*; 15 (1),50-54. *PMID:11936244*.
68. Zawacki T, **Cohen RA**, Paul, R, Ott, B, Grace, J, Moser, D. (2002). The relationship between apathy and activities of daily living in vascular dementia. *Journal of Neuropsychiatry and Clinical Neurosciences*, 8(6), 635-641. *PMID:12240738*.
69. Paul, R., **Cohen RA.**, Gilchrist, J. (2002). Ratings of subjective fatigue relate to cognitive performance in patients with myasthenia gravis. *Journal of Clinical Neuroscience*, 9(3),243-6. *PMID:12093127*.
70. Browndyke, J.N., D.J. Moser, **Cohen RA**, D.J. O'Brien, J.J. Algina, W.G. Haynes, E.D. Staples, J. Alexander, L.K. Davies, and R.M. Bauer. (2002). *Acute neuropsychological functioning following cardiosurgical interventions associated with the production of intraoperative cerebral microemboli. Clin Neuropsychol*, 16(4), 463-71. *PMID:12822055*.

2003

71. Paul R, Garret K, **Cohen RA**. (2003). Vascular dementia: A conundrum for the clinical neuropsychologist. *Applied Neuropsychology*, 10(3), 129-136. *PMID:12890638*.
72. Boyle PA, Malloy PF, Salloway S, Cahn-Weiner DA, **Cohen R**, Cummings JL. (2003). Executive dysfunction and apathy predict functional impairment in Alzheimer disease. *American Journal of Geriatric Psychiatry*; 11(2), 214-221. *PMID:12611751*.
73. Boyle PA, Paul R, Moser D, Zawacki T, Gordon N, **Cohen RA**. (2003). Cognitive and neurologic predictors of functional impairment in vascular dementia. *American Journal of Geriatric Psychiatry*; 11(1),103-6. *PMID:12527546*.
74. Paul R, **Cohen RA**, Moser D, Ott B, Zawacki T. (2003). Sensitivity and specificity of the Dementia Rating Scale in vascular dementia: Comparisons between two sets of criteria to define cognitive impairment. *Cerebrovascular Diseases* 15(1-2),116-20. *PMID:12499720*.
75. Paul R, **Cohen RA**, Stern R (2002). Neurocognitive Manifestations of Human Immunodeficiency Virus. *CNS Spectr*, 7(17), 860-866. *PMID: 12766695*
76. Tate, D., R.H. Paul, T.P. Flanigan, K. Tashima, J. Nash, C. Adair, R. Boland, and **Cohen RA**(2003). The impact of apathy and depression on quality of life in patients infected with HIV. *AIDS Patient Care STDS*, 17(3), 115-20. *PMID:12724007*.

2004

77. Sweet, L.H., S.M. Rao, M. Primeau, A.R. Mayer, and **Cohen RA**.(2004). Functional magnetic resonance imaging of working memory among multiple sclerosis patients. *J Neuroimaging*, 14(2), 150-7. *PMID:15095561*.
78. Garrett, K.D., J.N. Browndyke, W. Whelihan, R.H. Paul, M. DiCarlo, D.J. Moser, **Cohen RA**, and B.R. Ott.(2004). The neuropsychological profile of vascular cognitive impairment--no dementia: comparisons to patients at risk for cerebrovascular disease and vascular dementia. *Arch Clin Neuropsychol*, 19(6), 745-57. *PMID:15288328*.

79. Garrett, K.D., R.H. Paul, D.J. Libon, and **Cohen RA**.(2004). Defining the diagnosis of vascular dementia. *Appl Neuropsychol*11(4), 204-9. *PMID:15673492*.
80. Davis Garrett, K., R.A. **Cohen RA**. Paul, D.J. Moser, P.F. Malloy, P. Shah, and O. Haque. (2004). Computer-mediated measurement and subjective ratings of white matter hyperintensities in vascular dementia: relationships to neuropsychological performance. *Clin Neuropsychol*, 18(1), 50-62. *PMID:15595358*.
81. Browndyke, J.N., K.A. Tucker, S.P. Woods, J. Beauvals, **Cohen RA**, P.C. Gottschalk, and T.R. Kosten.(2004).*Examining the effect of cerebral perfusion abnormality magnitude on cognitive performance in recently abstinent chronic cocaine abusers. J Neuroimaging*, 14(2), 162-9. *PMID:15095563*.
82. Boyle, P.A., R.H. Paul, D.J. Moser, **Cohen RA**, (2004). Executive impairments predict functional declines in Vascular dementia. *Clin Neuropsychol*, 18(1),75-82. *PMID:15595360*.

2005

83. Sweet, L.H., J.F. Paskavitz, M.J. O'Connor, J.N. Browndyke, J.W. Wellen, and **Cohen RA**. (2005). FMRI correlates of the WAIS-III symbol search subtest. *J Int Neuropsychol Soc*, 11(4), 471-6. *PMID: 16209427*.
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longitudinal evidence for stability and improvement. *Neuropsychol Dev Cogn B Aging Neuropsychol Cogn* 2014;21:239-256.

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231. Gongvatana A, Correia S, Dunsiger S, et al. Plasma Cytokine Levels are Related to Brain Volumes in HIV-infected Individuals. *J Neuroimmune Pharmacol* 2014.
232. Daiello LA, Gongvatana A, Dunsiger S, Cohen RA, Ott BR. Association of fish oil supplement use with preservation of brain volume and cognitive function. *Alzheimers Dement* 2014.
233. Caldwell JZ, Gongvatana A, Navia BA, et al. Neural dysregulation during a working memory task in human immunodeficiency virus-seropositive and hepatitis C coinfecting individuals. *J Neurovirol* 2014;20:398-411.
234. Harezlak J, Cohen R, Gongvatana A, et al. Predictors of CNS injury as measured by proton magnetic resonance spectroscopy in the setting of chronic HIV infection and CART. *J Neurovirol* 2014;20:294-303.
235. Bryant V, Whitehead N, Burrell L, ...Cohen, RA.. *AIDS and Behavior*. In press.
236. Cohen, RA, Seider T, Navia BF. HIV effects on age-associated neurocognitive dysfunction: Premature cognitive aging or neurodegenerative disease. *Alzheimers Disease Research and Therapy*., in press.

OTHER PUBLICATIONS

Books:

1. Cohen, RA (in press) *Neuropsychology of Attention* (2nd Edition), Springer Publishing: New York.
2. Cohen, RA *Encyclopedia of Clinical Neuropsychology: Section Editor (Attention and Visual Functions)*. Springer Verlag, New York (20 chapters in encyclopedia)
3. Cohen RA & Gunstad, J. (2009) *Neuropsychology of Cardiovascular Disease*. Oxford University Press: New York
4. Cohen, RA & Sweet, LH. *Brain Neuroimaging in Behavioral Medicine and Neuropsychology*. (in press) *Neuropsychology of Attention*. Springer Verlag: New York.
5. Paul R, Cohen RA, Ott B, Salloway S (2004). *Vascular dementia: Cerebrovascular mechanisms and clinical management*. Humana Press: New York.
6. Cohen, RA (1993) *Neuropsychology of Attention*, Plenum Publishing: New York.

Chapters and Reviews:

1. Cohen, RA. Attention. (2014). *Encyclopedia of the Neurological Sciences*. Elsevier: New York.

2. Cohen RA, Jenkins, M, Paul, R, Malloy, P, (2013). Disorders of Attention. In, Parsons, M, ed. *Clinical Handbook of Neuropsychology* (3rd Edition). American Psychological Association: Washington, DC.
3. Cohen, RA, Hoth, K. *Neuropsychology of Heart Failure*. (Waldstein & Elias, Eds), in *Neuropsychology of Cardiovascular Disease*, In Press, Lawrence Erlbaum, New York.
4. Cohen, RA, Salloway, S, Sweet, LH. (2007). *Neuropsychiatry of Attention and Consciousness*. Textbook of Neuropsychiatry (4th Ed.). APA Press. Washington, DC.
5. Cohen, RA. *Neuropsychology of HIV* (In Press). *Advances in NeuroHIV* (R. Paul, T Tashima, N. Sackor, and V. Valcour (eds.) Humana: New York.
6. Cohen RA, Tate D, Sweet L. Functional imaging of cerebrovascular diseases and VaD. In Paul R, Cohen R, Ott B, Salloway S (eds). *Vascular dementia: Cerebrovascular mechanisms and clinical management*. Humana Press: New York.
7. Cohen RA, Malloy P, (2005) Disorders of Attention. In, Snyder PJ, Nussbaum PD, eds. *Clinical Handbook of Neuropsychology* (2nd Edition). American Psychological Assoc.: Washington, DC.
8. Malloy P, Cohen RA, Jenkins M (in press) Frontal lobe disorders. . In, Snyder PJ, Nussbaum PD, eds. *Clinical Handbook of Neuropsychology* (2nd Edition). American Psychological Assoc.: Washington, DC.
9. Cohen RA, Tate D, Sweet L. Functional imaging of cerebrovascular diseases and VaD. In Paul R, Cohen R, Ott B, Salloway S (eds). *Vascular dementia: Cerebrovascular mechanisms and clinical management*. Humana Press: New York.
10. Cohen RA, Salloway S (2002). *Neuropsychiatry of Attention and Consciousness*. Textbook of Neuropsychiatry (3rd Ed.). APA Press. Washington, DC.
11. Cohen RA, Malloy P, Jenkins M. (1998) Disorders of Attention. In, Snyder PJ, Nussbaum PD, eds. *Clinical Handbook of Neuropsychology*. American Psychological Association: Washington, DC.
12. Malloy RA, Cohen RA, Jenkins M (1998). Frontal lobe disorders. In, Snyder PJ, Nussbaum PD, eds. *Clinical Handbook of Neuropsychology*. American Psychological Association: Washington, DC.
13. Cohen RA, Salloway S (1996). *Neuropsychiatry of Attention and Consciousness*. Textbook of Neuropsychiatry. APA Press: Washington.
14. Clark MM, Nash J, Cohen RA, Chase C, Niaura R Psychological factors in cardiac disease. In P. Kleespies (Ed.) *Managing psychological emergencies: A handbook for the mental health practitioner*. New York: Guilford Publications.
15. Cohen RA, Kaplan RF. (1995). Neuropsychological aspects of cerebrovascular disease. In M. Fisher and J. Bogoslovski (Eds.) *Current Review of Cerebrovascular Disease* (2nd ed.). Current Medicine: Philadelphia.
16. Feuerstein, M. and Cohen, R. *The Psychological Assessment and Treatment of Cardiac Arrhythmias*. In Razin's *The Healing Heart*, Wiley, 1984.

Technical Reports (NASA)

1. Cohen RA, O'Donnell, BF. (1988) Attention, effort, and fatigue: Neuropsychological perspectives. *Proceedings of the NASA Mental State Estimation Workshop: NASA Scientific and Technical Reports*, CP-2504: 237-268.

2. O'Donnell BF, Cohen RA (1988) The N2-P3 complex of evoked potential and human performance. Proceedings of the NASA Mental-State Estimation Workshop: NASA Scientific and Technical Reports, CP-2504: 269-286.

ABSTRACTS

1. Over 100 Abstracts were presented by Dr. Cohen's group between 2009 and 2014
2. Zawacki T, Cohen R, Sweet L, Paskavitz J (2002). Relationship of SPECT neuroimaging findings to apathy among patients with vascular dementia. *Journal of the International Neuropsychological Society*, 7(2), 89.
3. Cohen, RA (2001). HAART effects on HIV-associated neurocognitive functioning among patients with heroin IDU. *Society for Neurosciences Abstracts*.
4. Cohen RA, Moser D, Wilkinson H (2000). Altered emotional experience following anterior cingulotomy and its relationship to impairments of intention and self-initiation. *Journal of the International Neuropsychological Society*, 6(2), 109.
5. Duis C, Moser D, Cohen RA (2000) Relationship between subcortical hyperintensities on MRI and neuropsychological test performance in patients with vascular dementia. *Journal of the International Neuropsychological Society*, 6(2), 225.
6. Moser D, Stone W, Boland R, Gordon N, Cohen R (2000). Pathological laughter: A case study. *Journal of the International Neuropsychological Society*. 6(2), 224
7. Osowiecki D, Cohen R, Morrow K, Boland R (1999). Neuropsychological and psychological contributions to quality of life in HIV infected women. *Journal of the International Neuropsychological Society*, 5(2), 96
8. Moser DJ, Cohen. RA, et al. (1999) Neuropsychological performance and quality of life in cardiac rehabilitation patients. *Journal of the International Neuropsychological Society*, 5(2), 131.
9. Cohen RA. (1999a) Behavioral timing and sequencing: Attention and executive control influences on central timekeeping capacity. . *Journal of the International Neuropsychological Society*, 5(2), 136.
10. Cohen RA (1999b). Short-duration timing impairments in patients with frontal-subcortical dysfunction, and their relation to impairments of attention, executive functioning, and processing speed. *Journal of the International Neuropsychological Society*, 5(2), 136-137.
11. Cohen RA. (1999) Short-duration timing impairments in patients with frontal-subcortical dysfunction and their relationship to impairments of attention, executive control, and processing speed. . *Journal of the International Neuropsychological Society*, 5(2), 136.
12. Moser DJ, Cohen RA, et al. (1999) Reduplicative paramnesia: A neuroimaging and neurobehavioral case study. . *Journal of the International Neuropsychological Society*, 5(2), 152.
13. Cohen RA, Kaplan RF. (1997) Attention and the anterior cingulate cortex. *Journal of the International Neuropsychological Society*.
14. Kaplan RF, Cohen RA, Jones-Woodward L, Jacobs. (1997) Awareness of deficit after the sodium amobarbital test. *Journal of the International Neuropsychological Society*.

15. RA, Rosenbaum A, Fletcher K, et al.(1997). Neuropsychological deficits associated with domestic violence: An epidemiological analysis. *Journal of the International Neuropsychological Society*.
16. Barnes, HJ, Rosenbaum, DA, Cohen RA (1994). The influence of attention on sequential motor timing. *Journal of the International Neuropsychological Society*, 1(2) 207.
17. Meadows, M-E, Cohen RA, O'Donnell BF, Moonis M, Drachman DA (1994). The predictive ability of electrophysiological and neuropsychological testing on functional outcome in dementia. *Journal of Clinical and Experimental Neuropsychology*, 16(1).
18. Cohen RA, Kaplan RF (1993) Attention as a multicomponent process: Neuropsychological validation. *J Int Neuropsychological Society*.
19. Cohen RA, Barnes HJ, Albers HE (1993) Disruption of short-duration timing following damage to the human suprachiasmatic region (SCN). *J Clin Exper Neuropsychol*, 15(3), 415.
20. Kaplan RF, Meadows M-E, Cohen RA, Bromfield EB, Ehrenberg BL (1993). Awareness of deficit: the sodium amobarbital (Wada) test. *J Clin Exp Neuropsychol*, 15(3), 383.

INVITED ADDRESSES

1. American Academy of Neuropsychology, Boston MA (May 2008) Neuropsychology of Cardiovascular Disease: 3 hour workshop
2. International Neuropsychological Society, Boston, MA (Feb. 2007). Neuropsychology of Cardiovascular Disease: Symposium
3. MIT-Cognitive Neuroscience Dept., Cambridge, MA (April 2007) Neuropsychology of Cardiovascular Disease.
4. National Academy of Neuropsychology, San Antonio, Texas (November 2006)) Neuropsychology of Cardiovascular Disease: 3 hour workshop
5. Boston VA Hospital, Jamaica Plains, MA. Cognitive Neuroscience Seminar (March 2003) Current evidence regarding subtypes of attention.
6. Harvard University, Brigham and Woman's Hospital, Cognitive Neuroscience Seminar (February 2003). Vascular dementia: A Review .
7. Harvard University, Brigham and Woman's Hospital, Cognitive Neuroscience Seminar (April 2002). Intentional functions and the cingulate cortex.
8. Brown University, (March 2002) Department of Philosophy: Exploration of the Mind-Body Problem (Panel with J. Fodor, L. Cooper, P. Kramer)
9. Society for Neurosciences, San Diego, CA. National Institute of Drug Abuse Sponsored Neuroscience Symposium: Drug abuse and HIV disease in the brain. (November 2001).
10. Wake Forest University- 7th Annual Graylyn Conference on Women's Cognitive Health. (Oct. 2001) HAART enhanced cognitive performance among HIV-infected women.
11. International Neuropsychological Society, Boston, MA (1999). Symposium leader. Timing and Attention.
12. Massachusetts Neuropsychological Association (1996). The component processes of attention: A

neuropsychological perspective.

13. Psychiatry Resident's Seminar (1995). Butler Hospital. Neuropsychology of Attention.
14. California Neuropsychological Forum (1994). San Francisco. Attention and Information Processing.
15. Neurosurgery Grand Rounds (1993). Univ. Massachusetts Medical School, Worcester, MA. Neurobehavioral impairments following bilateral cingulotomy.
16. Stanley Hall Lecture (1992). Psychology Department, Clark University. Neuropsychology of Attention.
17. Neuropsychiatry Seminar Series (1985-1993). Various topics.
18. Massachusetts Alzheimer's Disease Research Meeting (1990). Boston. Progressive aphasia with neuronal achromasia: clinicopathologic study.
19. UMMC Continuing Education Program. (1990) Neurobehavioral considerations in the assessment of Alzheimer's and related dementia.
20. Massachusetts Manic-Depressive Disorders Association Meeting (1989). Worcester. Sleep disorders associated with bipolar affective disorders.
21. Mental-State Estimation Workshop: NASA (1987). Williamsburg, Virginia. Attention, Grand Rounds (1987-1993). UMMC, Worcester. Co-Presenter.
22. South Florida Psychological Society (1983). Palm Beach., FL. Forensic Applications in Neuropsychology.

National Educational Activities (Professional Neuropsychology)

1. American Board of Clinical Neuropsychology: Continuing Education Program – Co-Director (R. Kaplan, Director), 2000-Current
2. American Board of Clinical Neuropsychology: Reviewer and examiner, 1995-Current.
3. American Board of Clinical Neuropsychology : Examination development committee 1996-1997.

UNIVERSITY TEACHING ROLES

Institution: Brown University, Providence, RI
Role: Grant Writing Seminar, Neuropsychology, DPHB
Dates: 2001– Current
Sections: 1 hour/week
Task: Mentoring neuropsychology interns, fellows, and junior faculty.

Institution: Brown University, Providence, RI
Role: Magnetic Resonance Foundation
Dates: 2001– Current
Sections: 4 hours/month
Task: Development of functional imaging programs and training at Brown University

- Institution: Brown University, Providence, RI
Role: Magnetic Resonance Foundation
Dates: 2001– Current
Sections: 4 hours/month
Task: Development of functional imaging programs and training at Brown University
- Institution: Brown University School of Medicine, Providence, RI
Course: Affinity Group Program: The Mind-Body Interface
Dates: August 2002 – Current
Sections: 16/Year
Students: 12 Medical Students
Role: Course Leader
- Institution: Brown University, Providence, RI Department of Philosophy
Course: Mind-Body Symposium
Dates: August 2001– Current
Sections: one
Students: 50
Topics: Discussion of the Mind-Body Problem
- Institution: Brown University School of Medicine, Providence, RI
Course: Neuropsychology Seminar Series
Dates: August 1993- – Current
Sections: 3-4/Year
Students: 8-10
Topics: Attention, Memory, Higher Visual Functions, fMRI
- Institution: Brown University School of Medicine, Providence, RI
Course: Neuropsychology Rounds
Dates: August 1993- – Current
Sections: 1-2 /Year
Students: 10-20
Topics: Various clinical and research area
- Institution: Brown University School of Medicine, Providence, RI
Course: Geriatric Psychiatry Seminar Series
Dates: August 2001 – Current
Sections: 1-2/Year
Students: 6-10
Topics: Neuropsychological Assessment of the Elderly; Vascular dementia
- Institution: Brown University School of Medicine, Providence, RI
Course: Post-Doctoral Neuropsychology Mentor
Dates: August 1996– Current
Sections: 10 hours a week
Students: 4 Current fellows
Role: Serve as research mentor to post-doctoral fellows in neuropsychology. Mentor to five fellows on their F32 grants and research career development.
- Institution: Brown University School of Medicine, Providence, RI
Course: Clinical Post-Doctoral Neuropsychology Supervisor/Mentor
Dates: August 1993- – Current

- Sections: 4 hours a week
Students: 10-20
Topics: Clinical neuropsychology
Institution: Brown University School of Medicine, Providence, RI
Course: Research Mentor, Psychiatry Fellows
Dates: July 1994 – Current
Students: 1/year
Roles: Have supervised/advised four psychiatry residents/fellows on research projects.
- Institution: Brown University School of Medicine, Providence, RI
Course: Clinical Psychology Internship: Clinical Neuropsychology Rotation
Dates: August 2001– Current
Sections: 8 hours a week
Students: 1/rotation
Topics: Clinical neuropsychology
- Institution: Brown University School of Medicine, Providence, RI
Course: Clinical Psychology Internship: Clinical Neuropsychology Rotation
Dates: July 2001– Current
Sections: 2 hours a week
Students: 1/rotation
Topics: Clinical neuropsychology
- Institution: Brown University School of Medicine, Providence, RI
Course: Clinical Psychology Internship: Research Placement Supervisor
Dates: August 2001– Current
Sections: 4 hours a week
Students: 1-2/ year
Topics: Neuropsychological Research
- Institution: Brown University School of Medicine, Providence, RI
Course: Clinical Psychology Internship: Behavioral Medicine Seminar Placement Supervisor
Dates: August 1995– Current
Sections: 1/year
Students: 4-6
Topics: Neuropsychological applications to behavioral medicine
- Institution: Brown University School of Medicine, Providence, RI
Course: Consultation-Liaison Supervisor
Dates: August 1994-2000
Sections: 8 hours a week
Students: 2/rotation
Topic: Inpatient clinical supervision
- Institution: Clark University – Departments of Biology and Psychology, Worcester, MA
Course: Cognitive neuroscience (Bio 364),
Dates: 1993-1994
Sections: 8 hours a week
Students: 12/seminar
Topics: Cognition and the brain
- Institution: Holy Cross College – Department of Psychology, Worcester, MA

Course: Cognition & Memory (Psych 305)
Dates: 1993-1994
Sections: 8 hours a week
Students: 26/seminar
Topics: Cognitive psychology.

Institution: University of Massachusetts Medical School, Worcester, MA
Role: Director of Neuropsychology Training
Dates: 1988-1993
Sections: 2 hours a week

Institution: University of Massachusetts Medical School, Worcester, MA
Role: Founding Member, Clinical Psychology Training
Dates: 1989-1993
Sections: 2 hours a week

Institution: University of Massachusetts Medical School, Worcester, MA
Role: Neuropsychology Clinical Supervisor
Dates: 1985-1993
Sections: 12 hours a week

Institution: University of Massachusetts Medical School / Worcester State Hospital
Course: Neuropsychology Seminar
Dates: 1985-1993
Sections: 4 hours a week
Students: 4
Topic: Clinical Neuropsychology

Institution: University of Massachusetts Medical School, Worcester, MA
Course: Neuropsychology Seminar, Neurology Residency Training Program
Dates: 1988-1993
Sections: 1/semester
Students: 10-20
Topics: Various topics in neuropsychology

Institution: University of Massachusetts Medical School/Worcester State Hospital
Course: Higher Cortical Functions Seminar
Dates: 1983
Sections: 1/semester
Students: 15
Topic: Attention and memory

FUNDED RESEARCH:

Active

1R01DK09933401A1 (Ronald Cohen, PI) 09/30/14-8/30/19

“Obesity and Type-2 Diabetes: Bariatric Surgery Effects on Brain Function”

The study will delineate mechanism underlying the effects of chronic obesity on brain functioning and determine if cognitive benefits of bariatric surgery and weight loss contribute to enhanced cerebral metabolic or hemodynamic function assessed using multimodal neuroimaging methods. 35% effort

5 R01 MH074368-05 (Ronald Cohen, PI) 09/30/06–08/31/13

“Age Effects on HIV-Associated Brain Dysfunction”

The goal of this project is to achieve greater understanding of how HIV infection interacts with aging to cause brain abnormalities that affect neurocognitive functioning. Dr. Cohen oversees this entire project.

Role: Principal Investigator 20% effort

5 P01 AA019072-02 (Peter Monti, PI)
08/31/15

09/30/10-

“Alcohol and HIV: Biobehavioral Interactions and Intervention”

This study focuses on the interactive effects of HIV and alcohol use on metabolic-vascular disturbances underlying brain dysfunction.

Role: Principal Investigator of Substudy 20% effort

R01 NS080655 Thompson (PI) 8/1/2012-7/31/2016 1.20 CM
NINDS \$35,337
Predicting Brain Changes in HIV/AIDS

This project greatly advances the ability to map, and predict, brain changes in people living with HIV/AIDS. HIV/AIDS is perhaps the greatest threat to public health worldwide in the 21st century. 40 million people are HIV-infected - a shocking 1 out of every 100 people aged 18-45 - and 40% have some neurological or cognitive impairment. This work offers 3 immediate public health consequences: (1) new methods to predict whether a person with HIV/AIDS will show imminent brain decline; (2) enhancing basic neuroscience, identifying brain circuits disrupted by the virus, and (3) a clear method to boost power for clinical trials of drugs to treat the brain in the millions of people now living with HIV/AIDS.

Role: Co-Investigator

U24 AA022002 Cook (PI) 09/01/2013-08/31/2014 .36 CM

NIAAA \$6,313

Southern HIV Alcohol Research Consortium (SHARC) Admin and Research Support Cure

The objective of this proposal is to establish the administrative structure and to provide research support for the SHARC, a collaboration that links several universities and investigators with a common goal of supporting new research related to HIV and alcohol consumption.

Role: Co-I.

1U54EB020403-01 ENIGMA: Center for Worldwide Medicine, Imaging and Genomics PI: Thompson, P

The **Enigma** Center for Worldwide Medicine, Imaging and Genomics is an unprecedented global effort bringing together 287 scientists and all their vast biomedical datasets, to work on 9 major human brain diseases: schizophrenia, bipolar disorder, major depression, ADHD, OCD, autism, 22q deletion syndrome, HIV/AIDS and addictions. **Enigma** integrates images, genomes, connectomes and biomarkers on an unprecedented scale, with new kinds of computation for integration, clustering, and learning from complex biodata types. **Enigma**, founded in 2009, performed the largest brain imaging studies in history (N>26,000 subjects; Stein +207 authors, Nature Genetics, 2012) screening genomes and images at 125 institutions in 20 countries. Responding to the BD2K RFA, ENIGMA'S Working Groups target key programmatic goals of BD2K funders across the NIH, including NIMH, NIBIB, NICHD, NIA, NINDS, NIDA, NIAAA, NHGRI and FIC. **Enigma** creates novel computational algorithms and a new model for Consortium Science to revolutionize the way Big Data is handled, shared and optimized. We unleash the power of sparse machine learning, and high dimensional combinatorics, to cluster and inter-relate genomes, connectomes, and multimodal brain images to discover diagnostic and prognostic markers. The sheer computational power and unprecedented collaboration advances distributed computation on Big Data leveraging US and non-US infrastructure, talents and data. Our projects will better identify factors that resist and promote brain disease,

that help diagnosis and prognosis, and identify new mechanisms and drug targets. Our Data Science Research Cores create new algorithms to handle Big Data from (1) Imaging Genomics, (2) Connectomics, and (3) Machine Learning & Clinical Prediction. Led by world leaders in the field who developed major software packages (e.g., Jieping Ye/SLEP), we prioritize trillions of computations for gene-image clustering, distributed multi-task machine learning, and new approaches to screen brain connections based on the Partition Problem in mathematics. Our **Enigma** Training Program offers a world class Summer School coordinated with other BD2K Centers, worldwide scientific exchanges. Challenge-based Workshops and hackathons to stimulate innovation, and Web Portals to disseminate tools and engage scientists in Big Data science. **Dr. Cohen is a co-I (10% effort) and director of HIV data initiative**

PENDING

NIA R01 AG049433 (Cohen/Marsiske; PIs) 09/01/2014-08/31/2014 2.40 CM

Augmenting Cognitive Training in Older Adults (ACT) \$12,181,750

The goal of this study will be to perform the definitive multi-site RCT establishing methods for optimized CT effectiveness in older adults through mindfulness meditation stress reduction and transcranial direct current stimulation.

Role: PI

NIH R01 Monti (PI) 12/01/2014-11/30/2019 2.4 CM

Alcohol and HIV: Bio behavioral Interaction and Intervention (Research Component 1) \$1,059,485

The proposed study will investigate effects of ETOH consumption on HIV-associated brain dysfunction, incorporating state-of-the-art brain imaging methods along with clinical and laboratory methods to assess the interactive effects of ETOH consumption on HIV-associated brain dysfunction.

Role: Co-I

Completed Research Support

5 R01 HL089311-04 (John Gunstad, PI)

09/15/08-11/30/12

NHLBI/Subcontract from Kent State

“Cognitive Benefits of Cardiac Rehabilitation in Heart Failure”

The main goal of this project will be to study CVD and its effects on the brain, and particularly how cardiac rehabilitation and the effects of vascular conditioning are influenced by the vascular CVD and systemic vascular disease factors. Role: Principal Investigator of Subcontract

5 P50 CA084719-11 (Jeanne McCaffery, PI of sub)

09/30/99-07/31/10

NCI/Subcontract from Butler Hospital

“Nicotine Dependence: Phenotype, Endophenotype & Contexts”

The major goal is to characterize the relationship of cigarette smoking to fMRI responses on smoking related tasks. Dr. Cohen’s role is to provide expertise related to the functional imaging analyses and interpretation of data from these paradigms. Role: Co-Investigator

5 R01 HL084178-03 (Lawrence Sweet, PI)

01/25/07-11/30/11

NHLBI/Subcontract from Butler Hospital

“Hemodynamic and Cognitive Function in Cardiovascular Disease”

This study aims at characterizing the relationship between cerebral hypoperfusion and abnormalities of BOLD on FMRI in association with working memory and attention performance among patients with heart failure.

Role: Principal Investigator of Subcontract

5 R01 DA020725-03 (Tara White, PI)

10/01/07-

05/31/11

NIDA/Subcontract from Brown University

“Imaging Individual Differences in Amphetamine Effects”

This study examines the relationship between personality factors and response to risk and reward following intake of amphetamines.

Role: Principal Investigator of Subcontract

2 R56 DK075119-05A1 (John Gunstad, PI)

09/01/06-08/31/12

NIDDK/Subcontract from Kent State

“Extended Effects of Bariatric Surgery on Cognitive Function”

This study examines the effects obesity and rapid loss of weight associated bariatric surgery.

Role: Principal Investigator of Subcontract

5U01 CA1503878-03 (Rena Wing, PI)

09/28/09-

08/31/14

“Increasing Sleep Duration: A Novel Approach to Weight Control”

The purpose of the project is to translate the basic science on sleep duration into a novel intervention to reduce obesity and obesity-related co-morbidities.

Role: Co-Investigator

5 R34 DA031057-02 (Ronald Cohen, PI)

09/30/10-

08/31/13

“Improving Adherence and Cognition in Substance-Using HIV Patients”

Substance abuse in the context of HIV infection is a major problem that affects clinical outcome and interferes with adherence to treatment regimens. This study examines the value of a computer-based cognitive training program (Vigorous Mind) to enhance attention and executive functioning as a means of improving organizational and planning ability and ultimately treatment adherence. The study focuses on further development of the program for use in this population and initial testing to determine its acceptability and whether a larger scale clinical trial is warranted.

Role: Principal Investigator

Pending Grants:

1. Early life stress and nicotine dependence (Niaura, PI): NIDA
2. 1R01AG032545-01 Metabolic Syndrome: Hemodynamic and Cognitive Dysfunction
3. 2R01AG017975-06A1 Cardiovascular Disease and Brain Dysfunction in the Elderly NIA.

Submitted Grant:

1. NIMH (RO1, Cohen & Williams, Co-PIs) Comparing Brain Mechanisms in exercise versus pharmacological treatment of depression. RO1 (20% effort)
2. NIDDK (RO1, Wing, PI). Sleep disturbance and obesity: Mechanisms & treatment. (5% effort).
3. NIDDK (RO1, McCaffery, PI) Functional imaging of food craving in obesity (15% effort).
4. NHLBI (RO1, McCaffery, PI) Vascular risk factors & depression in heart disease (10% effort)

Previously Funded Grants

1. National Institute of Health (NIA RO1, 2000-2004) (Principal investigator) Neurocognitive effects of

cardiovascular disease in the elderly. \$1,250,000

2. National Institute of Drug Abuse (ISTART grant) Co-Investigator, (Tara White, PI). An fMRI study of cocaine effects on impulsivity. \$100,000.
3. National Institute of Allergy and Infectious Diseases- Center For AIDS Research-Supplement (2001-2002).(Principal Investigator) HAART adherence and neurocognitive functioning among HIV-infected elderly. \$60,000). Supplemental developmental grant to the Brown University Center for AIDS Research (CFAR: PI-Charles Carpenter, MD).
4. National Institute of Health (Alzheimer's Disease Cooperative Study, 2000-2001) (Co-Investigator) A multicenter trial of rofecoxib and naproxen in Alzheimer's Disease \$60,000
5. Interneuron Pharmaceutical Corp. IP302-012, 1997-2000) (Principal Investigator), The effects of citicolinee in the treatment of vascular dementia \$198,000
6. Dupont Corp. (1987-1988), Grant # 404-024-5 (Co-Principal Investigator). Effect of Amantadine on MS associated fatigue (\$25,000).
7. Healy Grant (1989), UMMC. (Principal Investigator) The neurobehavioral characteristics of fatigue associated with Multiple Sclerosis (\$10,000)
8. NIH-BRSG (1991). UMMC. (Principal Investigator) Electrophysiological correlates of ADD subtypes (\$8,800)
9. Rhode Island Foundation (1994) Co-Investigator. The role of the Alzheimer's amyloid precursor protein in cerebral vascular disease. (\$4,411-animals & supplies).