

CURRICULUM VITAE

Date: January 20, 2016

JOSEPH I. TRACY, Ph.D., ABPP(CN)

*Professor, Departments of Neurology and Radiology
Director, Neuropsychology Division, Department of Neurology
Director, Cognitive Neuroscience and Brain Mapping Laboratory
Thomas Jefferson University/Sidney Kimmel Medical College
Diplomate, Clinical Neuropsychology, American Board of
Professional Psychology*

EDUCATION:

- 1972-76 B.A. Bowdoin College, Brunswick, Maine. Majored in Psychology.
1980-81 M.A. Developmental Psychology, Columbia University, Teachers College.
New York, New York.
1981-1990 Ph.D. Clinical Psychology, New School for Social Research,
New York, New York.

GRADUATE AND POSTGRADUATE TRAINING:

- 9/83 - 9/84 Practicum in Clinical Psychology, Veterans Administration Medical Center, Lyons, NJ (Amer .Psychological. Assoc., APA, approved internship site).
- 1984 Consultant, Conducted training seminars in psychological assessment. University of Medicine and Dentistry of New Jersey, Newark, NJ.
- 9/84 - 6/85 Practicum in Clinical Psychology, West Orange Family Service and Child Guidance Center, West Orange, NJ.
- 6/85 - 9/86 Internship in Clinical Psychology, (A.P.A. approved). Veterans Administration Medical Center, Lyons, NJ.
- 1/87 - 9/87 Fellowship in Clinical Psychology (Neuropsychology Specialty), St. Vincent's Hospital and Medical Center, New York, NY
- 9/87 - 5/89 Research Associate, Center of Alcohol Studies, Rutgers University, Piscataway, NJ.
- 5/89 - 4/90 Research Associate, Institute for Health, Health Care Policy and Aging Research, Rutgers University, New Brunswick, NJ.
- 1994 Cognitive Neuroscience Fellow, McDonnell Summer Institute, Center for Cognitive Neuroscience, University of California, Davis, CA.

1996 Visiting Fellowship in fMRI, Massachusetts General Hospital, Harvard University Medical School Visiting Fellowship in Functional Magnetic Resonance Imaging, NMR Center, Charlestown, Massachusetts.

FACULTY APPOINTMENTS:

5/90 - 3/97 Assistant Professor of Psychiatry, Medical College of Pennsylvania Hahnemann University (MCPHU), North Philadelphia Health System, Hospital, Eastern Pennsylvania Psychiatric Institute (EPPI) and Norristown State Hospital Clinical Research Center (NSH).

1991 –‘06 Visiting Associate Professor, Center of Alcohol Studies, Rutgers University, Piscataway, NJ.

1992-2000 Supervisor, EPPI and Norristown State Hospital for Neuropsychological and Psychological Assessments conducted by clinical psychology interns and psychiatry residents.

3/97 - 2/00 Associate Professor Psychiatry, MCP Hahnemann University.

1997 –‘04 Adjunct Associate Professor, School of Biomedical Engineering, Science and Health Systems, Drexel University, Philadelphia, PA.

1998 –‘02 Adjunct Associate Professor, School of Psychology, Sociology, and Anthropology, Drexel University, Philadelphia, PA.

1999 - 01 Consultant, University of Pennsylvania, Johnson Foundation, Dr. Britton Chance’s Laboratory in Optical Imaging of the Brain.

2/00 –‘06 Clinical Associate Professor of Neurology and Radiology, Thomas Jefferson University/ Jefferson Medical College.

2000 – ‘01 Adjunct Associate Professor, La Salle University, Department of Psychology.

2000-present Supervisor, Clinical Neuropsychology Practicum, Drexel University Program in Neuropsychology.

2006-present Supervisor, Clinical Neuropsychology Practicum, Widener University Program in Neuropsychology.

2006-present Associate Professor of Neurology and Radiology, Thomas Jefferson University/ Jefferson Medical College.

2010-present Professor of Neurology and Radiology, Thomas Jefferson University/Jefferson Medical College.

HOSPITAL AND ADMINISTRATIVE APPOINTMENTS:

- 9/77- 9/78 Communications Administrator, The Devereux Foundation, Devon, PA. Management level position.
- 4/89 - 6/90 Program Director, Substance Abuse Research, The Carrier Foundation, Belle Meade, NJ.
- 1991-99 Neuropsychologist, Eastern Pennsylvania Psychiatric Institute and Norristown State Hospital. Conducted and supervised neuropsychological assessments throughout these hospitals.
- 2000- present Director, Neuropsychology Division, Department of Neurology, Thomas Jefferson University/Jefferson Medical College. Philadelphia, Pa.
- 2000-present Director, Cognitive Neuroscience and Brain Imaging Laboratory, Department of Neurology, Thomas Jefferson University/Jefferson Medical College.
- 2004-present Director, Clinical Neuroimaging Program, Thomas Jefferson University.

SPECIALTY CERTIFICATION:

- 2004 American Board of Professional Psychology. Diplomate and Board Certification, Specialty Clinical Neuropsychology.

LICENSURE:

- 1994 - present Pennsylvania Licensed Clinical Psychologist, Number PS-006545-L. Issued: March, 1994.
- 1995 - present New Jersey Licensed Clinical Psychologist, Number SI-03245. Issued: June, 1995.

PROFESSIONAL MEMBERSHIPS:

NATIONAL SOCIETIES:

- Cognitive Neuroscience Society
- American Epilepsy Society
- American Psychological Association
- International Neuropsychological Society
- Organization for Human Brain Mapping
- Society for Neuroscience

LOCAL SOCIETIES:

- Philadelphia Neuropsychological Society

PROFESSIONAL AND SCIENTIFIC COMMITTEES:

Scientific Advisory Board, 2000 to 2007. Division 40 (Neuropsychology)

American Psychological Association

NIH Study Section (ZRG1 BDCN-R 03). Ad Hoc Reviewer. 2014.

NIH Study Section (ZMH1CRB-U 02). Ad Hoc Reviewer. 2012.

NIH Study Section (ZNS1 SRB-G 12). Reviewer.

Case Reviewer, 2004 to present. American Board of Professional Psychology,
Academy of Neuropsychology. Review clinical case reports and
applications for Diplomate Status (Board Certification) in Clinical
Neuropsychology.

Application #: ZRGI BDCN-R (02) Special Emphasis Panel Study Section “Member
Conflict: Imaging Correlates of Neurodegeneration”. 2014

2015

EDITORIAL POSITIONS:

Member, Journal Review Boards –

Neuroimage

Human Brain Mapping

Biological Psychiatry

Brain Topography

Epilepsia

Journal of Alcohol Studies

Brain and Language

Epilepsia

Cortex

Brain

Journal of Psychiatry and Neuroscience

Neuropsychologia

Neuropsychology

Journal of the International Neuropsychological Association

Schizophrenia Research

Journal of Abnormal Psychology

Psychological Medicine

Psychiatry Research

Brain and Cognition

ACADEMIC COMMITTEES:

1994 - 1996 Faculty Member, Medical College of Pennsylvania/Hahnemann University
(MCPHU) MCPHU, Center on Aging

1994 Member, MCPHU Grand Rounds Committee

1996 - 1998 Member, MCPHU Institutional Review Board, Committee for the
Protection of Human Subjects.

2010- present Member, Thomas Jefferson University, Conflict of Interest Committee.

MAJOR TEACHING/EDUCATIONAL ACTIVITIES:

9/83 to 9/87 Adjunct Professor, Psychology Department, Trenton State College (now the College of New Jersey), Trenton, NJ. Taught courses in Developmental Psychology.

1991 to 2000 MCPHU, Drexel University, Norristown State Hospital, or LaSalle University, Courses and Lectures: Research Methods and Statistics, Neuropsychology/Cognitive Neuroscience Seminar, Neuropsychology of Schizophrenia, Attention and Memory, DSM-IV Structured Clinical Interview, Psychopathology, Selected Topics in Cognitive Neuroscience.

1994, 1997 Dissertation Supervisor, MCPHU and Drexel University.

1995- present Dissertation Committee Work: 1) MCPHU program in Clinical and Health Psychology, 2) Drexel University program in Psychology and Clinical Neuropsychology

2000 - 2009 Thomas Jefferson University: Neuroscience Course (Memory Lecture); Psychiatry Residency Program (Lectures in: Cognitive Neuroscience; Neuroimaging; Neuroscience of Schizophrenia). Neurology Residency Program (Lectures in Neuropsychology of Epilepsy, Neuroimaging, Wada Procedure). Neuroscience PhD Program: Topics in Translational Neuroscience; Meet the Professor; Molecular and Cellular Neurobiology .

2000-present Mentoring, Thomas Jefferson University. See Teaching Portfolio for list of numerous graduate and medical students mentored.

2006, '07 Neuroscience Ph.D. Oral Exam Committee, Thomas Jefferson University.

2009 Dissertation Supervisor, Thomas Jefferson University, Department of Neuroscience.

2000-present Clinical Neuropsychology Seminar and Intern Supervision. Course DPSY 889 at Widener University and Drexel University.

LECTURES BY INVITATION:

Grand Rounds - Carrier Foundation, Belle Meade, NJ, 1991, "Substance Abuse: Research Update".

- Grand Rounds (Neurology) - Medical College of Pennsylvania, 1994, "Medial Temporal Lobe Memory Functions." Philadelphia, Pa.
- Grand Rounds (Psychiatry) – Robert Wood Johnson/University of Medicine and Dentistry of New Jersey, 1998, “The Role of the Cerebellum in Cognition: An fMRI Study.” New Brunswick, N.J..
- Grand Rounds (Neurology) – Thomas Jefferson University/Medical College, 2000, "The Functionality of a Frontal/Cerebellar Circuit.”
- Grand Rounds (Rehabilitation)--Moss Rehabilitation Research Institute, 11/14/01, “fMRI, Expertise, and the Neuroanatomy of Motor Skill Development.” Philadelphia, Pa.
- Grand Rounds (Radiology)—Thomas Jefferson University/Medical College, 12/18/01, “The Functional Neuroanatomy of Motor Skill Development.”
- Invited Lecture, Office of Naval Research, Department of Defense, 1/23/02, Conference on Cognitive Architectures—“The Functional Neuroanatomy of the Novice-to-Expert Shift.” Bethesda, MD.
- Invited Presenter, fMRI in Neurorehabilitation Workshop, Moss Rehabilitation Research Institute, 6/28,29/02, Philadelphia, Pa.
- Invited Lecture, Cooper Hospital, Neurology Grand Rounds, University of Medicine and Dentistry of New Jersey, 2/1/05, “The Wada Examination in Epilepsy Pre-surgical Evaluation: Purpose, Procedure, Problem, and Prospects. “ Camden, NJ.
- Invited Lecture, University of Pennsylvania Hospital, Department of Psychiatry, Neuropsychology Rounds, 5/20/05, “The Functional Neuroanatomy of Skill Development: Brain Correlates of the Novice to Expert Shift. “ Philadelphia, Pa.
- Invited Lecture, York Hospital, Neurology Grand Rounds, 12/16/05, “The Wada Examination in Epilepsy Pre- Evaluation: Purpose, Procedure, Problem, and Prospects.“ York, Pa.
- Invited Lecture, Philadelphia Neuropsychological Society, 2/9/06, “Presurgical Neurocognitive Evaluation in Epilepsy. “Drexel University, Philadelphia, N.J..
- Invited Lecture, International Neuropsychological Society, 2/4/11, “Cognitive Plasticity and Epilepsy.” Boston, Massachusetts.
- Invited Lecture, American Society for Stereotactic and Functional Neurosurgery, 5/31/14,

Washington, D.C. “The Presurgical Neuropsychological Evaluation in Epilepsy.”

Invited Lecture, International Workshop on Brain Oscillations in Health and Disease, Drexel University, Philadelphia, Pa., 7/11/14, “Resting State Connectivity in Epilepsy”.

Symposium Presentation, International Neuropsychological Society. “ Resting State Functional Connectivity in Epilepsy”, February 7, 2015.

Invited Grand Rounds, Department of Neurosurgery, Thomas Jefferson University, “ Presurgical Brain Mapping”, March 20, 2015.

Invited Grand Rounds, Department of Radiology, Thomas Jefferson University, “ Task-fMRI and Resting State Studies in Epilepsy”, May 4, 2015.

Invited Lecture, Department of Neurology, Thomas Jefferson University, “Presurgical Neuropsychological Evaluation in Epilepsy”, March 13, 2015.

Invited Lecture, Department of Psychology, Drexel University, “Neuropsychology of Epilepsy”, April 27, 2015

Symposium Presentation, American Epilepsy Society, “Resting State Functional Connectivity: Clinical Applications in Temporal Lobe Epilepsy“, December 6th, 2015.

ORGANIZING ROLES IN SCIENTIFIC MEETINGS:

Scientific Conference Program Committee, International Neuropsychological Society: 1999, 2002, 2003, 2004, 2005, 2006.

Scientific Conference Program Committee, Organization for Human Brain Mapping: 2007, 2008, 2009.

BIBLIOGRAPHY

Published Full-Length, Peer Reviewed Papers

1. Bates, M. & **Tracy, J.I.** (1990). Cognitive functioning in young "social drinkers": Is there impairment to detect? Journal of Abnormal Psychology, 99, 242-249.
2. **Tracy, J.I.**, Gorman D., & Leventhal, E. (1992). Reports of physical symptoms and alcohol use: Findings from a primary health care sample. Alcohol and Alcoholism, 27 (5), 481-491.
3. Smith, J., **Tracy J.I.**, & Murray, M. (1993). Depression and category learning. Journal of Experimental Psychology: General, 122 (3), 331-346.

4. **Tracy, J.I.** & Bates, M. (1994). Models of functional organization as a method for detecting cognitive deficits: data from a sample of social drinkers. Journal of Studies on Alcohol, 55, 726-738.
5. De Leon, J., Verghese, C., **Tracy, J.I.**, Josiassen, R., & Simpson, G.M. (1994). Polydipsia and water intoxication in psychiatric patients: A review of the epidemiological literature, Biological Psychiatry, 35, 408-419.
6. **Tracy, J.I.** (1994). Assessing the relation between craving and relapse. Drug and Alcohol Review, 13, 71-77.
7. **Tracy, J.I.**, Josiassen, R.C., & Bellack, A.S. (1995). Neuropsychology of dual-diagnosis: Understanding the combined effects of schizophrenia and substance abuse. Clinical Psychology Review, 15, 67-97.
8. **Tracy, J.I.**, Oesterling, B., & Josiassen, R.C. (1995). Transient fluctuations in cognitive functioning in schizophrenia. Schizophrenia Research, 17, 201-209.
9. Mueser, K., Nishith, P., **Tracy, J.I.**, DeGiralamo, J., & Molinaro, M. (1995). Expectations and motives for substance use in schizophrenia. Schizophrenia Bulletin, 21, 367-378.
10. **Tracy, J.I.**, (1995). Non-specific abnormalities in psychiatry: Do they reflect an ordered pathway for brain dysfunction? Biological Psychiatry, 38, 207-209.
11. **Tracy, J.I.**, McGrory, A., & Josiassen, R. (1996). A comparison of reading and demographic based estimates of premorbid intelligence in schizophrenia. Schizophrenia Research, 22, 103-109.
12. Chambliss, C., McMichael, H., Tyson, K., Monaco, C., & **Tracy, J.I.** (1996). Motor performance of schizophrenics after mellow and frenetic antecedent music. Perception and Motor Skills, 82, 153-154.
13. **Tracy, J.I.**, de Leon, J., Querishi, G., McCann, E., & Josiassen, R. (1996). Repetitive behaviors in schizophrenia: A single disturbance or discrete symptoms? Schizophrenia Research, 20, 221-229.
14. **Tracy, J.I.**, de Leon, J., Doonan, R., Musciente, J., Ballas, T., Josiassen, R., & Antelo R. (1996). Clock drawing in schizophrenia. Psychological Reports, 79, 923-928.

15. **Tracy, J.I.**, Glosser, G., & DellaPietra, L. (1996). A cognitive/linguistic model of single-word production in schizophrenia. Brain and Cognition, 30, 311-315.
16. Chambliss, C., Tyson, K., & **Tracy, J.I.** (1996). Performance on the Purdue Pegboard and Finger Tapping by schizophrenics after mellow and frenetic antecedent music. Perceptual and Motor Skills, 83, 1161-1162.
17. Abraham, G., Nair, C., **Tracy, J.I.**, Simpson, G., & Josiassen, R.C. (1997). The effects of clozapine on symptom clusters in treatment-refractory patients, Journal of Clinical Psychopharmacology, 17, 49-53.
18. Berman, M., **Tracy, J.I.**, & Coccaro, E.F. (1997). The serotonin hypothesis of aggression revisited. Clinical Psychology Review, 17, 651-665.
19. **Tracy, J. I.**, de Leon, J., Verghese, C., Josiassen, R., McGrory, A., & McCann, E. (1997). A comparison of polydipsia prevalence among chronic psychiatric patients using three measurement approaches. Biological Psychiatry, 42, 1097-1104.
20. **Tracy, J.I.**, Monaco, C., Abraham, G., Josiassen, R.C., & Pollock, B.G. (1998). Relation of serum anticholinergic to cognitive status in schizophrenia patients on clozapine and risperidone. Journal of Clinical Psychiatry, 59, 184-188.
21. **Tracy, J. I.**, Monaco, Catherine A., McMichael, H., Tyson, K., Chambliss, C., Christensen, H., Celenza, M.A. (1998). The Information Processing characteristics of explicit time estimation by patients with schizophrenia and normal controls. Perception and Psychomotor Skills, 86, 515-526.
22. Nair, C.J., Abraham, G., Stanilla, J.K., **Tracy, J.I.**, deLeon, J., Simpson, G.M., Josiassen, R.C. (1998). Therapeutic effects of clozapine on tardive dyskinesia. Cognitive and Behavioral Practice, 5, 123-131.
23. **Tracy, J.I.** & Bates, M.E. (1999). The selective effects of alcohol on automatic and controlled memory processes. Neuropsychology, 13, 282-290.
24. **Tracy, J.I.** (1999) Learning Complex Categories Two Ways at Once: The Link between automatic processing and non analytic processing, Perceptual and Motor Skills, 88, 563-578.
25. Nair, C., Josiassen, R., Abraham, G., Stanilla, J., **Tracy, J.I.**, & Simpson, G. (1999). Does akathisia influence psychopathology in psychotic patients treated with clozapine?. Biological Psychiatry, 45, 1376-1383.

26. **Tracy, J. I.**, Monaco, C., Giovannetti, T. Abraham, G., & Josiassen, R. (2000). The effects of “acute” cigarette smoking on cognitive functioning in chronic schizophrenia.” Cognitive Neuropsychiatry, 5, 193-218.
27. **Tracy, J.I.**, Mohammed, F., Faro, S., Koenigsberg, R., Pinsk, M., & Tsai, F. (2000). Functional Localization of a “Time Keeper” Function Separate from Attentional Resources and Task Strategy.” Neuroimage, 11, 228-242.
28. Mohamed, F. B., **Tracy, J.I.**, Faro, S., & Emperado, J., Koenigsberg, R., Pinus, A., & Tsai, F. (2000). Investigation of Alternating and Continuous Experimental Task Design During Single Finger Opposition fMRI: A Comparative Study. Journal of Computed Assisted Tomography, 24, 935-941.
29. **Tracy, J.I.**, Mattson, R., King, C., Bundick, T., & Glosser, G. (2001). A comparison of verbal and non-verbal memory functions in schizophrenia. Schizophrenia Research, 50,199-211.
30. **Tracy, J.I.**, Monaco, C., Giovannetti, T., Abraham, G. & Josiassen, R. (2001). Anticholinergic and cognitive processing in chronic schizophrenia. Biological Psychology, 56, 1-22.
31. **Tracy, J.I.**, Mohamed, F. B., Faro, S., Pinus, A., Christensen, H., & Burkland, D. (2001). An investigation of “Early “ and “Late” brain activation during brief practice of a simple motor task. Cognitive Brain Research, 10, 303-316.
32. **Tracy, J.** & Pinsk, M. (2001). Is there a link between automatic/effortful processing and nonanalytic/analytic learning? Brain and Cognition, 46, 326-341.
33. **Tracy, J.I.**, Mohamed. F., Faro. S., Tiver, R., Pinus, A., Bloomer, C., Pyrros, A., & Harvan, J. (2001). The effect of autonomic arousal on attentional focus. NeuroReport, 11, 4037-4042.
34. **Tracy, J.I.**, Faro, S., Mohamed, F., Pinus, A., Madi, S., & Laskas, J. (2001). Cerebellar Mediation of the Complexity of Bimanual Compared to Unimanual Movements. Neurology, 27, 1862-1869.
35. Faro, S., Mohammed, F., **Tracy, J.**, Elfont, R., Pinus, A., Lublin, F., Koenigsberg, R., & Tsai, F.Y., (2002). Quantitative functional MRI of the visual cortex as a function of luminance contrast in healthy volunteers and patients with multiple sclerosis. American Journal of Neuroradiology, 23, 59-65.
36. de Leon, J., **Tracy, J. I.**, McCann, E., McGrory, A. & Diaz, F.J. (2002). Schizophrenia and tobacco smoking: a replication study in another US psychiatric hospital. Schizophrenia Research, 56,55-65.

37. de Leon, J., **Tracy, J. I.**, McCann, E., McGrory, A. (2002). Polydipsia and schizophrenia in a psychiatric hospital: A replication study. *Schizophrenia Research*, *57*, 293-301.
38. **Tracy, J.I.**, Mohamed, F., Faro, S., Bloomer, C., Harvan, J., Tiver, R., & Pyrros, A. (2003). Differential Brain responses when applying criterion attribute and family resemblance rule Learning. *Brain and Cognition*, *51*, 276-286.
39. Mandel, S., **Tracy, J.**, & Maitz, E. (2003). Letter to the Editor, Severity of sports-related concussion and neuropsychological test performance. *Neurology*.
40. **Tracy, J.I.**, Flanders, A., Madi, S., Natale, P., Laskas, J., Pyrros, A., Stoddard, E. & Delvecchio, N. (2003). Brain Regions for “Non-Executive” Cognitive Control of a Well-Learned Motor Task”. *Cerebral Cortex*, *13*(9), 904-910.
41. **Tracy, J.I.**, Flanders, A., Madi, S., Natale, P., Laskas, J., Pyrros, A. & Delvecchio, N. (2003). The Brain’s Response to Incidental Intruded Words During Focal Text Processing, *NeuroImage*, *18*, 117-126.
42. DelVecchio, N., Sperling, M., Liporace, J., Nei, M. & O’Connor, M., & **Tracy, J.I.** (2004). A Dissociation Between Implicit and Explicit Memory in Medial Temporal Lobe Epilepsy. *Epilepsia*, *45*, 1-10.
43. Rabin, M.L., Narayan, V.M., Kinberg, D.Y., Casasanto, D.J., Glosser, G., **Tracy, J.I.**, French, J.A., Sperling, M.R., Detre, J.A. (2004). Functional MRI predicts post-surgical memory following temporal lobectomy. *Brain*, *127*, 2286-2298.
44. **Tracy, J.I.**, Flanders, A., Madi, S., Natale, P., Goyal, N., Laskas, J., Pyrros, A. & Delvecchio, N. (2005). The Brain Topography Associated with Active Reversal and Suppression of an Ambiguous Figure. *European Journal of Cognitive Psychology*, *17*, 267-288.
45. Khoury, J.S., Winokur, R.S., **Tracy J.I.**, Sperling, M.R. Predicting seizure frequency in patients with recurrent seizures after epilepsy surgery. (2005). *Epilepsy Research*, *67*, 89-99.
46. Jenssen, S., Gracely, E., Mahmood, T., **Tracy, J.**, Sperling, M. Subjective somnolence relates mainly to depression among patients in a tertiary care epilepsy center (2006). *Epilepsy and Behavior*, *9*, 632-635.
47. Jenssen, S., Sperling, M., **Tracy, J.**, Nei, M., Liporace, J., O’Connor, M. Corpus callosotomy in refractory idiopathic generalized epilepsy (2006). *Seizure*, *15*, 621-629.

48. **Tracy, J.**, Johnson V, Sperling MR, Cho R, Glosser D. (2007). The Association of Mood with Quality of Life Ratings in Epilepsy. Neurology, 68(14), 1101-1107.
49. Pyrros, A., Nikolaidis, P., Yaghmai, V., Zivin, S., Tracy, J., & Flanders, A. (2007). A Bayesian approach for the categorization of radiology reports. Academic Radiology, 14(4), 426-430.
50. **Tracy, J.I.**, Lippincott, C., Mahmood, T., Waldron, B., Kanauss, K., Glosser, D., & Sperling, M. (2007). Are Depression and Cognitive Performance Related in Temporal Lobe Epilepsy? Epilepsia, 48(12), 2327-2335.
51. **Tracy, J.I.**, Ahmed, N., Khan, W., & Sperling, M. (2007). A test of the efficacy of the McSquare device for improving verbal memory, learning, and attention. International Journal of Learning Technology, 3(2) 183-202.
52. **Tracy, J.**, Goyal, N., Flanders, A., Weening, R. Laskas, J., Natale, P., Waldron, B. (2007). Functional Magnetic Resonance Imaging Analysis of Attention to One's Heartbeat." Psychosomatic Medicine, 7(6), 458-462.
53. Ali A. Asadi-Pooya, Schilling, C., Glosser, D., **Tracy, J.**, & Sperling, M. (2007). Health locus of control in patients with epilepsy and its relation to anxiety, depression, and seizure control. Epilepsy and Behavior, 11(3), 347-350.
54. **Tracy, J.I.**, Lippincott, C., Mahmood, T., Waldron, B., Kanauss, K., Glosser, D., & Sperling, M. (2007). Are Depression and Cognitive Performance Related in Temporal Lobe Epilepsy? Epilepsia, 48(12), 2327-2335.
55. Smith, H. E., Rynning, R.E., Okafor, O., Zaslavsky, D., **Tracy, J.I.**, Ratliff J, Harrop J, Albert T, Hilibrand A, Anderson G, Sharan A, Brown Z, Vaccaro AR, (2007), Evaluation of Neurologic Deficit Without Apparent Cause: Importance of Multidisciplinary Approach, J Spinal Cord Med, 30(5), 509-517.
56. Zangaladze, A., **Tracy, J.**, Pillai, J., Raghunathan, U., Wyeth, E., Wyeth, D., Chervoneva, I., & Sperling, M. (2008). The effectiveness of low-frequency stimulation for mapping cortical function. Epilepsia, 49(3), 481-487.
57. Sperling, M., Schilling, C.A., Glosser, D., **Tracy, J.**, Asadi-Pooya, A. (2008). Self-perception of seizure precipitants and their relation to anxiety level, depression, and health locus of control in epilepsy, Seizure, 17(4),302-307.

58. Mechanic-Hamilton, D., Korczykowski, M., Yushkevich, P., Lawler, K., Pluta, J., Glynn, S., **Tracy, J.**, Wolf, R.L., Sperling, M.R., French, J. and Detre, J.A. (2009). Hippocampal Volumetry and Memory fMRI in Temporal Lobe Epilepsy. Epilepsy and Behavior, 16(1), 128-138.
59. **Tracy, J.**, Waldron, B., Glosser, D., Sharan, A., Mintzer, S., Zangaladze, A., Skidmore, C., Siddiqui, I., Caris, E., Sperling, M. (2009). Hemispheric Lateralization and Language Skill Coherence in Temporal Lobe Epilepsy, Cortex, 45(10), 1178-1189.
60. **Tracy, J.**, Waldron, B., Glosser, D., Sharan, A., Mintzer, S., Zangaladze, A., Skidmore, C., Siddiqui, I., Caris, E., Sperling, M. (2009). Hemispheric Lateralization and Language Skill Coherence in Temporal Lobe Epilepsy. Cortex, 45(10), 1178-1189.
61. Osipowicz, K. Rickards, T., Shah, A., Sharan, A., Sperling, M., Kahn, W., & **Tracy, J.**, (2011). A Test of the Role of the Medial Temporal Lobe in Single-Word Decoding. Neuroimage, 54, 1453-1464.
62. **Tracy, J.I.**, La, Quan, Osipowicz, K., Mamtani, A., Schwartz, D., & Uzlac, G. (2011). A Test of the Role of Cortical/ Subcortical Networks in the “Sequencing” of Non- Motor, Visuo-Spatial Information. Brain Imaging and Behavior.
63. **Tracy, J.I.**, Hernandez, R., Mayekar, S., Osipowicz, K., Corbett, B., Pascua, M., Sperling, M., & Sharan, A. (2012). The Functional Neuroanatomy of Non-verbal (Pitch) Memory Function in Left and Right Anterior Temporal Lobectomy Patients. Clinical Neurology and Neurosurgery.
64. Doucet, G., Osipowicz, K., Sharan, A., Sperling, M., & **Tracy, J.** (2012). Extra-Temporal Functional Connectivity Impairments at Rest are Related to Memory Performance in Mesial Temporal Epilepsy. Human Brain Mapping, 34(9):2202-2216.
65. **Tracy, J.I.**, Osipowicz, K., Spechler, P., Sharan, A., Skidmore, C., Doucet, G., & Sperling, M.R. (2012). Functional Connectivity Evidence of Cortico-Cortico Inhibition in Temporal Lobe Epilepsy. DOI: 10.102/hbm.22181. Human Brain Mapping 35(1):353-66.
66. **Tracy, J.**, Shah, A., Khan, W., Osipowicz, K., Sharan, A., Godofsk, S., & Sperling, M. (2012). An Investigation of Implicit Memory Through Left Temporal Lobectomy for Epilepsy. Neurobiology of Learning and Memory. NLM-12-44.
67. Zangaladze, A., Sharan, A., Evans, J., Wyeth, D., Wyeth, E., **Tracy, J.**, Chervoneva, I., Sperling, M., (2013) The effectiveness of low-frequency stimulation for mapping cortical function. Epilepsia, 49(3):481-7.

68. Doucet, G., Osipowicz, K., Sharan, A., Sperling, M. & **Tracy, J.** (2013) Hippocampal functional connectivity patterns during spatial working memory differ in right versus left temporal lobe epilepsy. Brain Connectivity, 3(4):398-406.
69. Doucet, G., Skidmore, C., Sharan, A., Sperling, M., & **Tracy, J.** (2013). Functional connectivity abnormalities vary by amygdala subdivision and are associated with mood symptoms. Brain and Cognition, 83:171-182.
70. G. Doucet, D. Pustina, R. Rider, N. Taylor, J. Evans, A. Sharan, M. Sperling, and J. Tracy. Resting-state functional connectivity predicts neurocognitive outcome after anterior temporal lobectomy. PLOS ONE.
71. Tracy, J. and Doucet, G., (2014, in press). Resting-State Functional Connectivity in Epilepsy: Growing Relevance for Clinical Decision Making. Current Opinions in Neurology.
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42. La, A., Uzelac, G., Osipowicz, K., Kahn, W., Shah, A., Pascua, M., Lai, S., Tracy, J. (2009). A Frontal/Subcortical Network for Sequencing Non-motor, Non-Verbal Dimensional Information, Organization for Human Brain Mapping Annual Meeting, San Francisco, CA.
43. Tracy, J.I., Epilepsy and Cognitive Plasticity, (2011). International Neuropsychological Society Annual Meeting, Symposium entitled: fMRI-Based Evidence of Neuroplasticity in Neurological Populations.
44. Osipowicz, K., Pajor, N., Sharan, A., Sperling, M., Tracy, J., (2012). Interictal Seizure Burden Alters White Matter Integrity In Temporal Lobe. American Epilepsy Society, San Diego, CA. 1.168.

45. Doucet,G., Osipowicz,K., Sharan,A., Sperling,M., Tracy,J., (2012). Resting State Functional Connectivity Abnormalities Emerging from the Left Amgdala are Related to Anxiety and Depression in Right but not Left Mesial Temporal Lobe Epilepsy. American Epilepsy Society, San Diego, CA, 2.173.
46. Doucet, G. Osipowicz, K., Sharan, A., Sperling, M., Tracy, J. (2012). Resting state functional connectivity abnormalities emerging from the left amygdala are related to anxiety and depression in right but not left mesial temporal lobe epilepsy. 66th Annual Meeting of the American Epilepsy Society, San Diego CA, USA.
47. Doucet, G. Sharan, A., Evans, J., Sperling, M., Tracy, J. (2013). Effects of temporal lobe epilepsy and surgery on the default-mode network. 19th Annual Meeting of the Organization for Human Brain Mapping, Seattle, USA.
48. Pustina D., Evans J., Sharan A., Sperling M., Tracy J., Tract integrity changes following left and right anterior temporal lobectomy in epileptic patients, 2013, Poster presented at the 19th Annual Meeting of the Organization for Human Brain Mapping, Seattle, USA.
49. G. Doucet, C. Skidmore, D. Pustina, A. Sharan, M. Sperling, J. Tracy (2013) Effect of age of seizure onset and mesial temporal sclerosis on brain functional organization in temporal lobe epilepsy. 67th Annual Meeting of the American Epilepsy Society, Washington DC, USA.
50. D. Pustina, G. Doucet, A. Sharan, M. Sperling, J. Tracy (2013) Combined grey and white matter properties are better predictors of verbal memory in left, but not right, temporal lobe epilepsy. 67th Annual Meeting of the American Epilepsy Society, Washington DC, USA.
51. G. Doucet, D. Pustina, R. Rider, N. Taylor, C. Skidmore, A. Sharan, M. Sperling, J. Tracy (2014) Resting-state functional connectivity predicts cognitive change after surgery in temporal epilepsy. 20th Annual Meeting of the Organization for Human Brain Mapping, Hamburg, Germany.
52. G. Doucet, D. Pustina, C. Skidmore, A. Sharan, M. Sperling, J. Tracy (2014) Can resting-state functional connectivity predict language laterality index in temporal epilepsy? 20th Annual Meeting of the Organization for Human Brain Mapping, Hamburg, Germany.
53. D. Pustina, C. Skidmore, G. Doucet, M. Sperling, J. Tracy (2014) Contralateral spread of temporal lobe interictal spikes is related to damage of the tapetum fibers. 20th Annual Meeting of the Organization for Human Brain Mapping, Hamburg, Germany.

54. D. Pustina, G. Doucet, C. Skidmore, M. Sperling, J. Tracy (2014) Longer left temporal lobe epilepsy is associated with progressive loss of the right arcuate. 20th Annual Meeting of the Organization for Human Brain Mapping, Hamburg, Germany.
55. D. Moadel, G. Doucet, D. Pustina, R. Rider, N. Taylor, M. Sperling, A. Sharan, J. I. Tracy (2014) Amygdala Volume and Predictors of Psychiatric Symptoms After Anterior Temporal Lobectomy. 20th Annual Meeting of the Organization for Human Brain Mapping, Hamburg, Germany.
56. G. Doucet, C. Skidmore, D. Pustina, A. Sharan, M. Sperling, J. Tracy (2013) Effect of age of seizure onset and mesial temporal sclerosis on brain functional organization in temporal lobe epilepsy. 67th Annual Meeting of the American Epilepsy Society, Washington DC, USA.
57. D. Pustina, G. Doucet, A. Sharan, M. Sperling, J. Tracy (2013) Combined grey and white matter properties are better predictors of verbal memory in left, but not right, temporal lobe epilepsy. 67th Annual Meeting of the American Epilepsy Society, Washington DC, USA.
58. G. Doucet, A. Sharan, J. Evans, M. Sperling, J. Tracy (2013) Effects of temporal lobe epilepsy and surgery on the default-mode network. 19th Annual Meeting of the Organization for Human Brain Mapping, Seattle WA, USA.
59. G. Doucet, K. Osipowicz, A. Sharan, M. Sperling, J. Tracy (2012) Resting state functional connectivity abnormalities emerging from the left amygdala are related to anxiety and depression in right but not left mesial temporal lobe epilepsy. 66th Annual Meeting of the American Epilepsy Society, San Diego CA, USA.
60. G. Doucet, X. He, M. Sperling, A. Sharan, J. Tracy (2015) Functional integrity of resting-state networks predicts seizure outcome after anterior temporal lobectomy. 69th Annual Meeting of the American Epilepsy Society, Philadelphia, USA.
61. G. Doucet, X. He, P. Barnett, A. Sharan, M. Sperling, J. Tracy (2015) Voxel-based morphometry can distinguish temporal epilepsy patients with good vs poor seizure outcome. 21st Annual Meeting of the Organization for Human Brain Mapping, Hawaii, USA.
62. X. He, G. Doucet, M. Sperling, A. Sharan, P. Barnett, and J. I. Tracy (2015) Reduced Thalamocortical Functional Connectivity in Temporal lobe epilepsy. 21st Annual Meeting of the Organization for Human Brain Mapping, Hawaii, USA.

63. L. Robinson, G. Doucet, P. Barnett, A. Sharan, M. Sperling, J. Tracy (2015) The temporal instability of the ventral default mode network connectivity in intractable epilepsy. 21st Annual Meeting of the Organization for Human Brain Mapping, Hawaii, USA.
64. G. Doucet, X. He, P. Barnett, C. Skidmore, A. Sharan, M. Sperling, J. Tracy (2015) Episodic Memory Deficits are related to gray matter volume and functional connectivity abnormalities in temporal lobe epilepsy. 67th Annual Meeting of the American Association of Neurology, Washington DC, USA. (*Oral Presentation*).
65. G. Doucet, R. Rider, N. Taylor, P. Barnett, C. Skidmore, M. Sperling, A. Sharan, J. Tracy (2015) Pre-surgery resting-state graph-theory measures predict neurocognitive outcomes after brain surgery in temporal lobe epilepsy. 43rd Annual Meeting of the International Neuropsychological Society, Denver CA, USA. (*Oral Presentation*).
66. G. Doucet, D. Pustina, P. Barnett, A. Ghani, C. Skidmore, A. Sharan, J. Evans, M. Sperling, J. Tracy (2014) Can Resting-state functional connectivity predict seizure outcome after an anterior temporal lobectomy? 68th Annual Meeting of the American Epilepsy Society, Seattle WA, USA.
67. L. Robinson, P. Barnett, G. Doucet, D. Pustina, A. Ghani, J. Tracy (2014) The Temporal instability of the ventral default mode network connectivity in intractable epilepsy. 68th Annual Meeting of the American Epilepsy Society, Seattle WA, USA.
68. G. Doucet, D. Pustina, R. Rider, N. Taylor, C. Skidmore, A. Sharan, M. Sperling, J. Tracy (2014) Resting-state functional connectivity predicts cognitive change after surgery in temporal epilepsy. 20th Annual Meeting of the Organization for Human Brain Mapping, Hamburg, Germany.
69. G. Doucet, D. Pustina, C. Skidmore, A. Sharan, M. Sperling, J. Tracy (2014) Can resting-state functional connectivity predict language laterality index in temporal epilepsy? 20th Annual Meeting of the Organization for Human Brain Mapping, Hamburg, Germany.
70. D. Pustina, C. Skidmore, G. Doucet, M. Sperling, J. Tracy (2014) Contralateral spread of temporal lobe interictal spikes is related to damage of the tapetum fibers. 20th Annual Meeting of the Organization for Human Brain Mapping, Hamburg, Germany.
71. D. Pustina, G. Doucet, C. Skidmore, M. Sperling, J. Tracy (2014) Longer left temporal lobe epilepsy is associated with progressive loss of the right arcuate. 20th Annual Meeting of the Organization for Human Brain Mapping, Hamburg, Germany.

72. D. Moadel, G. Doucet, D. Pustina, R. Rider, N. Taylor, M. Sperling, A. Sharan, J. I. Tracy (2014) Amygdala Volume and Predictors of Psychiatric Symptoms After Anterior Temporal Lobectomy. 20th Annual Meeting of the Organization for Human Brain Mapping, Hamburg, Germany.
73. G. Doucet, C. Skidmore, D. Pustina, A. Sharan, M. Sperling, J. Tracy (2013) Effect of age of seizure onset and mesial temporal sclerosis on brain functional organization in temporal lobe epilepsy. 67th Annual Meeting of the American Epilepsy Society, Washington DC, USA.
74. D. Pustina, G. Doucet, A. Sharan, M. Sperling, J. Tracy (2013) Combined grey and white matter properties are better predictors of verbal memory in left, but not right, temporal lobe epilepsy. 67th Annual Meeting of the American Epilepsy Society, Washington DC, USA.
75. G. Doucet, A. Sharan, J. Evans, M. Sperling, J. Tracy (2013) Effects of temporal lobe epilepsy and surgery on the default-mode network. 19th Annual Meeting of the Organization for Human Brain Mapping, Seattle WA, USA.
76. G. Doucet, K. Osipowicz, A. Sharan, M. Sperling, J. Tracy (2012) Resting state functional connectivity abnormalities emerging from the left amygdala are related to anxiety and depression in right but not left mesial temporal lobe epilepsy. 66th Annual Meeting of the American Epilepsy Society, San Diego CA, USA.

BOOKS CHAPTERS:

- Tracy, J.I (1998). Language abnormalities in psychosis: Evidence for the interaction between cognitive and linguistic mechanisms. In B. Stemmer and H. Whitaker (Eds.). Handbook of Neurolinguistics (pp.496-505). Academic Press: San Diego, Ca.
- Tracy, J. I., Shah, S. (2008). Presurgical Functional Brain Mapping and Neurocognitive Testing in Epilepsy. In Textbook of Clinical Neuropsychology, J. Morgan, J. Ricker (Eds.), Taylor and Francis, New York.
- Tracy, J., Boswell, S. (2008). Modeling the Interaction between Language and Memory: The Case of Temporal Lobe Epilepsy. In Handbook of the Neuroscience of Language, B. Stemmer, H. Whitaker (Eds). Chapter 31, p 319-328, Academic Press: San Diego, CA.
- Tracy, J.I., Osipowicz, K., Stamos, C., & Berman, A. (2010). Epilepsy and Cognitive Plasticity. In The Neuropsychology of Medical Disorders. C. Armstrong, L. Morrow (Eds.). Springer, New York, 2010.

Tracy J, Pustina D, Doucet G, Osipowicz K, Seizure-Induced Neuroplasticity and Cognitive Network Reorganization in Epilepsy (in Plasticity of Cognition in Neurologic Disorders, Oxford University Press, 2014). Chapter 2, p. 29-60. J. Tracy, B. Hampstead, K. Sathian (Eds.).

BOOKS

Cognitive Plasticity in Neurologic Disorders, Oxford University, J. Tracy, B. Hampstead, K. Sathian (eds.).

EDITORIAL BOARDS:

2014 *Austin Journal of Neurological Disorders and Epilepsy*

Alternative Media Coverage:

5/23/07 Consulted and commented on “Helmet Boxing” phenomena among youth. Channel 3, CBS news.

5/25/06 Commented and reported study results from empirical investigation of McSquare Device and its effect on memory, learning, and attention. Channel 10, ABC news.

2/7/01 Consulted and commented on FMRI research involving learning and motor skills in the brain. Channel 29, Fox news.

COMMUNITY SERVICE:

1988-1990 Trustee/Executive Board Member, Princeton University N.O.W. Day Care Center.

1993-1995 Trustee/Executive Board Member, Lawrence-Hamnett Soccer Association Competitive soccer league for youth.

1996-2002 Trustee/Executive Board Member and Chair, Grant Review Committee, Lawrence Township Education Foundation. Private philanthropy for Education.

GRANTS OR AWARDS MENTORED:

2012: Dr. Gaelle Doucet. American Epilepsy Society Fellowship for the conference AES 2012 (San Diego, CA, USA). Amount: \$800.

2013: Dr. Gaelle Doucet. Thomas Jefferson University Postdoctoral Travel Fellowship. Support of the costs related to the conference OHBM 2013 (Seattle, WA, USA). Amount: \$800.

2013: Dr. Dorian Pustina. Thomas Jefferson University Postdoctoral Travel Fellowship. Support of the costs related to the American Epilepsy Conference, 2013 (Washington, D.C.). Amount: \$800.

Jul 2013-Jun 2014: Dr. Gaelle Doucet. Behavioral Science Post-doctoral Fellowship funded by the American Epilepsy Foundation. Project: Can resting-state networks predict cognitive change after epilepsy surgery? Amount: \$40,000 / 1 year.

GRANT SUPPORT:

<u>Site Director for Neuropsychology</u>	ProTECT III Clinical Trial, Neurological Emergency Treatment Trials. Multisite study in Traumatic Brain Injury funded by NINDS. 1/2010 to 1/2015.
<u>Neuropsychology Consultant and Planning Director</u>	Biovail Technologies, LTD. Investigations of the Neurocognitive Effects of Clinical Trial Medications for Tourette's Syndrome. 1/15/10.
<u>Co-Investigator</u>	National Multiple Sclerosis Society, "Examining the Relationship between MS progression and Driving." 10/1/09-9/30/12.
<u>Principal Investigator</u>	NIMH R21-- "Identifying Abnormal Neurocognitive Circuits in Temporal Lobe Epilepsy. " 7/07 to 9/10.
<u>Principal Investigator</u>	A Test of the EEG Correlates and Stress Relief Benefits of the McSquare Device 8/1/07-6/12/09. Daeyang, Inc..
<u>Principal Investigator</u>	A Test of the Efficacy of the McSquare Device for Improving Age- Related Memory Problems, 2/1/07-1/31/08. Daeyang, Inc..
<u>Principal Investigator</u>	A Test of the Efficacy of the McSquare Device for Improving Verbal Memory, Learning, and Attention. 9/1/05-8/30/06. Daeyang, Inc..
<u>Site Director for Neuropsychology</u>	Stimulation of the Anterior Nucleus of the Thalamus in Epilepsy, Medtronic, 8/1/07-7/31/08.
<u>Site Director for Neuropsychology</u>	Responsive Neurostimulator (RNS) System Pivotal Clinical Investigation Neuronix 5/1/07- 6/1/08.

<u>Site Director for Neuropsychology</u>	Double-blind Randomized Trial of Cognitive Effects of Lamictal versus Topiramate in Epilepsy. 5/03-6/04. GlaxoSmithKline, Inc.
<u>Site Director for Neuropsychology</u>	Early Randomization to Surgery for Epilepsy Trial. National Institutes for Health National Institute for Neurological Disorders, 1/03-1/08.
<u>Site Director for Neuropsychology</u>	Neurodevelopmental Effects of Anti-epileptic Drugs. National Institutes for Health, National Institute for Neurological Disorders, 1/02-1/07.
<u>Site Director for Neuropsychology</u>	Measurement of Neuropsychological Functioning in Epilepsy Patients Treated with Vagus Nerve Stimulation (VNS) Therapy Cyberonics, Inc. 5/02-5/04.
<u>Co-Investigator</u>	A Randomized, Double-blind, Placebo-Controlled Study of C105 (levoamphetamine sulfate) to Improve Memory in Patients Suffering from Anterior Communicating Artery Syndrome. Sention Pharmaceuticals. 1/03 to 1/04.
<u>Principal Investigator</u>	U.S. Department of Defense, Office of Naval Research-- "Brain Activation Change and Automatic Processing" 5/99 to 1/02.
<u>Co-Investigator</u>	"Quantification of the functional consequences of demyelinating lesions using functional MRI in patients with multiple sclerosis." National Multiple Sclerosis Society 3/99-3/2001.
<u>Principal Investigator</u>	NARSAD -- "The role of the cerebellum in sequencing functions in schizophrenia." 7/1/96 to 7/1/99.
<u>Principal Investigator</u>	Beukenkamp Foundation Award -- "fMRI Measures of Brain Response as a Predictor of Treatment Outcome in Schizophrenia. 7/1/98 to 7/1/2000.
<u>Co-Investigator</u>	Organon, Inc. (Pharmaceuticals). "A double-blind, three-armed, fixed-dose, placebo controlled dose-finding study with sublingual ORG5222 in subjects with acute phase schizophrenia." 11/1/99 to 12/1/00. Directed neuropsychology component.

<u>Co-Investigator</u>	Smithers Prevention Endowment -- "The link between moderate alcohol use and cognitive efficacy: A cognitive experimental approach." 8/31/89 to 8/30/90.
<u>Co-Investigator</u>	NIAAA -- "Cocaine & Alcohol: Inpatient vs outpatient treatments." 6/1/89 to 6/1/91.
<u>Co-Investigator</u>	Alcohol Beverage Medical Research Foundation -- "The link between moderate alcohol use and cognitive efficacy: A cognitive experimental Approach." 9/1/91 to 9/1/92.
<u>Co-Investigator</u>	NIMH -- "Longitudinal study of polydipsia and water intoxication." 1/95 to 1/2000.
<u>Principal Investigator</u>	NIMH R03-- "Transient cholinergic effects on cognition in schizophrenia." 1/95-6/96.
<u>Neuropsychology Consultant</u>	"A multicenter, randomized, double-blind, placebo and active controlled study of MDL 100,907 in schizophrenic and schizoaffective patients." Pharmaceutical funding: Hoeschst-Marion Roussel. 1996-1997
<u>Neuropsychology Consultant</u>	"A multicenter, open-label, long term followup, safety study of MDL 100,907 in schizophrenic and schizoaffective patients who participated in the study 100907PR0015". Pharmaceutical funding: Hoeschst-Marion Roussel. 1996-1997.
<u>Neuropsychology Consultant</u>	"A pilot study of the effects of BMS-204352 on evoked potentials and cognitive function in healthy subjects." Pharmaceutical funding: Bristol- Myers Squibb. 1998.
<u>Faculty Training Grant</u>	MCPHU, 1996. Functional Magnetic Resonance Imaging Training.
<i>PATENTS:</i>	<i>"Method to Improve Concentration and/or Memory"</i> May, 2007. Application No. 60/940,153. Relates to use of McSquare Device manufactured by GeoMC, Ind., Seoul, Korea.