

## CURRICULUM VITAE

### Personal Data

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### Education

1982-1986 University of Colorado, Boulder, Colorado (Cum Laude)  
1994-2001 University of New Mexico, Albuquerque, NM  
Specialization: Clinical Neuropsychology  
2000-2001 Baylor College of Medicine (Internship), Houston, Texas  
Departments: Neurosurgery and Behavioral Medicine  
2001-2004 Post Doctoral Fellow, Department of Psychiatry Research, University of  
New Mexico Health Sciences Center, Albuquerque, NM

### Dissertation

Jung, R. E. Biochemical Markers of Intelligence and Cognition in Normal Human Brain,  
Ph.D., University of New Mexico, Albuquerque, New Mexico, 2001.

### Academic Positions

2004- Assistant Research Professor, Department of Neurology, University of  
New Mexico Health Sciences Center, Albuquerque, NM  
2006- Assistant Research Professor, Department of Psychology, University of  
New Mexico, Albuquerque, NM  
2006- Research Scientist, The Mental Illness and Neuroscience Discovery  
(MIND) Institute, Domenici Hall, Albuquerque, NM  
2008- Assistant Research Professor, Department of Neurosurgery, University of New  
Mexico, Albuquerque, NM

### Current Grants

2008-2013	1P20 RR021938-01A2, NIH-NIMH: Co-Investigator <i>Neural Mechanisms of Schizophrenia: Use of Multiple Neuroimaging Tools to Examine Dysfunctions in Neural Integration.</i>	40% effort \$11,500,000
2007-2010	The John Templeton Foundation, Principal-Investigator: <i>The Neuroscience of Creativity.</i>	35% effort. \$600,000
2006-2010	1R01HL077422-01A1, NIH-NHLBI: Neuropsychologist <i>Libman-Sacks Endocarditis and Neuropsychiatric Lupus Erythematosus</i>	20% effort

### Completed Grants

2008-2008	Blue Planet Software: Principal Investigator <i>Neuroscience of Tetris</i>	5% effort \$90,000
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### Patents

6708053 Brooks WM, Jung RE, et al., *Biochemical Markers of Brain Function* 3/16/2004

Monday, May 5, 2009

### Honors and Awards

- 1993 National Institutes of Health - Student Summer Internship Program  
Biomedical Research
- 1998 Lupus Foundation of America - Gina Finzi Memorial Student Summer  
Fellowship
- 1999 University of New Mexico - Benjamin Franklin Haught Scholarship in  
Psychology
- 2000 University of New Mexico - Arts and Sciences Graduate Fellowship
- 2000 Mensa Education and Research Foundation – Award for Excellence in  
Research
- 2007 Society for Neuroscience – Abstract selected for Public Education and  
Communication Committee Press Book

### Membership in Scientific and Professional Societies

- 1994 American Psychological Association – Division 40 (Neuropsychology)
- 1999 International Society for Magnetic Resonance in Medicine (ISMRM)
- 2003 International Society for Intelligence Research (ISIR)
- 2004 Organization for Human Brain Mapping (OHBM)
- 2006 Cognitive Neuroscience Society (CNS)
- 2007 Society for Neuroscience (SfN)
- 2007 Neuroethics Society
- 2008 Association for Psychological Science (APS)

### Ad Hoc Reviewer:

*American Journal of Epidemiology*  
*American Journal of Medical Genetics – Neuropsychiatric Genetics*  
*American Journal of Psychiatry*  
*Behavioral and Brain Sciences*  
*Biological Psychiatry*  
*Brain Imaging and Behavior*  
*Cerebral Cortex*  
*Clinical Cancer Research*  
*Experimental Neurology*  
*Human Brain Mapping*  
*Intelligence*  
*Journal of Neuroscience*  
*Methods*  
*NeuroImage*  
*Neuropsychopharmacology*  
*Roeper Review*  
*Psychiatry Research: Neuroimaging*

### Research Publications

1. Ciesielski KT, Waldorf AV, **Jung RE**. (1995). Anterior Brain Deficits in Chronic Alcoholism: Cause or Effect? *Journal of Nervous and Mental Disease*. 183(12):756-61.
2. Giambra LM, **Jung RE**, Grodsky, A. (1996). Age Changes in Dream Recall in Adulthood. *Dreaming*, 6(1):17-31.
3. Friedman SD, Brooks WM, **Jung RE**, Hart BL, & Yeo RA. (1998) Proton MR Spectroscopic Findings Correspond to Neuropsychological Function in Traumatic Brain Injury. *American Journal of Neuroradiology*. 19:1879-1885.

4. Friedman SD, Brooks WM, **Jung RE**, Chiulli SJ, Sloan JH, Montoya BT, Stidley CA, Hart BL, Yeo RA. (1999). Quantitative 1H-MRS Predicts Outcome Following Traumatic Brain Injury. *Neurology*. 52: 1384-1391.
5. Sibbitt WL Jr., **Jung RE**, Brooks WM. (1999) Neuropsychiatric Systemic Lupus Erythematosus. *Comprehensive Therapy*. 25(4):198-208.
6. Brooks WM, **Jung RE**, Ford CC, Greinel EJ, & Sibbitt WL. (1999). Relationship Between Neurometabolite Derangement & Neurocognitive Dysfunction in Systemic Lupus Erythematosus. *Journal of Rheumatology*. 26:81-85.
7. **Jung RE**, Brooks WM, Yeo RA, Chiulli SJ, Weers D, & Sibbitt WL. (1999). Biochemical Markers of Intelligence: A Proton MR Spectroscopy Study of Normal Human Brain. *Proceedings of the Royal Society of London - Biological Sciences*. 1426: 1375-1379.
8. **Jung RE**, Yeo RA, Chiulli SJ, Sibbitt WL, Weers DC, Hart BL, & Brooks WM. (1999). Biochemical Markers of Cognition: A Proton MR Spectroscopy Study of Normal Human Brain. *Neuroreport*. 10: 3327-3331.
9. **Jung RE**, Yeo RA, Gangestad S. (2000). Developmental Instability Predicts Individual Variation in Verbal Memory Skill After Caffeine Ingestion. *Neuropsychiatry, Neuropsychology, and Behavioral Neurology*. 13:195-198.
10. Brooks WM, Stidley CA, Petropoulos H, **Jung RE**, Weers DC, Friedman SD, Barlow MA, Sibbitt WL, & Yeo RA. (2000). Metabolic and cognitive response to human traumatic brain injury: a quantitative proton magnetic resonance study. *Journal of Neurotrauma*. 17: 629-640.
11. **Jung RE**, Yeo RA, Chiulli SJ, Sibbitt WL, & Brooks WM. (2000). Myths of Neuropsychology: Intelligence, Neurometabolism and Cognitive Ability. *The Clinical Neuropsychologist*. 14: 535-545.
12. Bustillo JR, Lauriello J, Rowland L, **Jung RE**, Petropoulos H, Hart B, Blanchard J, Keith S, Brooks WM. (2001). Effects of Chronic Haloperidol and Clozapine Treatments on Frontal and Caudate Neurochemistry in Schizophrenia. *Psychiatry Research: Neuroimaging*. 107: 135-149.
13. **Jung RE**, Yeo RA, Sibbitt Jr. WL, Ford CC, Hart BL, & Brooks WM. (2001). Gerstmann Syndrome in Systemic Lupus Erythematosus: Neuropsychological, Neuroimaging and Spectroscopic Findings. *Neurocase*. 7: 101-107.
14. **Jung RE**, Yeo RA, Love TM, Petropoulos H, Sibbitt WL, & Brooks WM. (2002). Biochemical Markers of Mood: A Proton MR Spectroscopy Study of Normal Human Brain. *Biological Psychiatry*. 51: 224-229.
15. Hill DE, Ciesielski KT, Hart BL, & **Jung RE**. (2004). MRI Morphometric and Neuropsychological Correlates of Long-term Memory in Survivors of Childhood Leukemia. *Pediatric Blood & Cancer*. 42(7): 611-7.
16. Haier RJ, **Jung RE**, Yeo RA, Head K, & Alkire MT. (2004). Structural Brain Variation and General Intelligence. *NeuroImage*. 23:425-433.
17. Rowland LM, Bustillo JR, Mullins PG, **Jung RE**, Lenroot R, Landgraf E, Barrow R, Yeo RA, Lauriello J, & Brooks WM (2005). The Effects of Ketamine on Anterior Cingulate Glutamatergic Activity in Healthy Humans: A 4.0T Proton MRS Study. *American Journal of Psychiatry*. 162:394-396.
18. Rowland LM, Astur RS, **Jung RE**, Bustillo JR, Lauriello J, & Yeo RA. (2005). Selective Cognitive Impairments Associated with NMDA Receptor Blockade in Humans. *Neuropsychopharmacology*. 30: 633-639.
19. Haier RJ, **Jung RE**, Yeo RA, Head K, & Alkire MT. (2005). The neuroanatomy of general intelligence: sex matters. *NeuroImage*. 25: 320-327.
20. Mullins PG, Rowland LM, **Jung RE**, & Sibbitt WL. (2005). A novel technique to study the brain's response to pain: Proton MRS. *NeuroImage*. 26(2):642-646.

21. **Jung RE**, Haier RJ, Yeo RA, Rowland LM, Petropoulos H, Levine AS, Sibbitt WL, & Brooks WM. (2005). Sex Differences in N-acetylaspartate Correlates of General Intelligence: A 1H-MRS Study of Normal Human Brain. *NeuroImage*. 26(3):965-972.
22. Haier RJ, **Jung RE**, Yeo RA, Head K, & Alkire MT. (2005). Structural brain variation, age, and response time. *Cognitive, Affective, and Behavioral Neuroscience*. 5(2):246-251.
23. Gasparovic C, Song T, Devier D, Bockholt J, Caprihan A, Mullins PG, Posse S, **Jung RE**, & Morrison L. (2006). The use of tissue water as a concentration reference for proton spectroscopic imaging. *Magnetic Resonance in Medicine*. 55(6):1219-26.
24. Colom R, **Jung RE**, Haier RJ. (2006). Distributed Brain Sites for General Intelligence. *NeuroImage*. 31(3):1359-65.
25. Yeo RA, Phillips JP, **Jung RE**, Brown AJ, Campbell RC, & Brooks WM. (2006). Magnetic resonance spectroscopy detects brain injury and predicts cognitive functioning in children with brain injuries. *Journal of Neurotrauma*, 23(10):1427-35.
26. Yeo RA, **Jung RE**, Brooks WM. (2006). NAA and Higher Cognitive Function in Humans. *Advances in Experimental Medicine and Biology* 576: 215-226.
27. Colom R, **Jung RE**, Haier RJ. (2006). Finding the General Factor of Intelligence (g) in the Brain. *Intelligence*, 34(6): 561-570.
28. **Jung RE**, & Haier RJ. (2007). The Parieto-Frontal Integration Theory (P-FIT) of Intelligence: Converging Neuroimaging Evidence. *Behavioral and Brain Sciences*, 30(2): 135-154.
29. Haier RJ, & **Jung RE** (2007). Beautiful Minds (i.e. Brains) and the Neural Basis of Intelligence: Response to Commentaries. *Behavioral and Brain Sciences*, 30(2): 174-178.
30. Johnson W, **Jung RE**, & Haier RJ. (2007). Psychometric dimensions of cognition other than general intelligence correlate to regional brain structure. *Intelligence*. 36(1): 18-28.
31. Colom R, **Jung RE**, Haier RJ. (2007). General Intelligence and memory span: Evidence for a common neuro-anatomic framework. *Cognitive Neuropsychology*, 24(8): 867-878.
32. Haier RJ & **Jung RE**. (2008). Brain Imaging Studies of Intelligence and Creativity: What is the Picture for Education? *Roeper Review*, 30(3): 171-180.
33. Bustillo JR, Rowland LM, **Jung RE**, Brooks WM, Qualls C, Hammond R, Hart B, & Lauriello J. (2008) Proton magnetic resonance spectroscopy during the first year of antipsychotic treatment in schizophrenia. *Neuropsychopharmacology*, 33(10): 2456-66.
34. Franco AR, Ling J, Caprihan A, Calhoun VC, **Jung RE**, Heilman G, & Mayer AR, (2008). Multimodal and Multi-tissue Measures of Connectivity Revealed by Joint Independent Component Analysis. *IEEE Journal of Selected Topics in Signal Processing*, 2(6): 986-997.
35. Segall JM, Turner JA, van Erp GM, White T, Bockholt HJ, Gollub RL, Ho BC, Magnotta V, **Jung RE**, McCarley RW, Schulz SC, Lauriello J, Clark VP, Voyvodic JT, Diaz MT, & Calhoun VD. (2009). Voxel-based Morphometric Multi-site Collaborative Study on Schizophrenia, *Schizophrenia Bulletin*, 35(1): 82-95.
36. Colom R, Haier RJ, Head K, Alvarez-Linera J, Quiroga MA, Shih PC, & **Jung RE**, (2009). Gray Matter Correlates of Fluid, Crystallized, and Spatial Intelligence: Testing the P-FIT Model. *Intelligence*, 37(2): 124-135.
37. **Jung RE**, Gasparovic C, Chavez RS, Caprihan A, Barrow R, & Yeo RA. (2009). Imaging Intelligence with Proton Magnetic Resonance Spectroscopy. *Intelligence*, 37(2): 192-198.
38. **Jung RE**, Gasparovic C, Chavez RS, Flores RA, Smith SM, Caprihan A, Yeo RA, (In Press), Biochemical Support for the "Threshold" Theory of Creativity: A Magnetic Resonance Spectroscopy Study, *Journal of Neuroscience*, 29(16):5319-5325.
39. Haier RJ, Karama S, Leyba L, **Jung RE**. (Under Review). MRI assessment of cortical thickness and functional activity changes in adolescent girls following three months of practice on a visual-spatial task, *BMC Research Methods*,

40. **Jung RE**, Segall JM, Bockholt HJ, Chavez RS, Flores R, & Haier RJ. (Under Review). Neuroanatomy of Creativity, *Human Brain Mapping*.
41. **Jung RE**, Caprihan A, Chavez RS, Flores RA, Sharrar J, Qualls C, Sibbitt WJ, Roldan CA. (Under Review). Diffusion Tensor Imaging Supports Wallerian Degeneration in Neuropsychiatric Systemic Lupus Erythematosus. *Arthritis and Rheumatism*,
42. Bustillo JR, Rowland LM, Mullins PG, **Jung RE**, Chen H, Qualls C, Hammond R, Brooks WM, & Lauriello J. (Under Review). 1H-MRS at 4 Tesla in Minimally Treated Early Schizophrenia.
43. White T, Magnotta V, Bockholt HJ, Williams S, Gollub RL, Mueller B, Ho BC, **Jung RE**, Clark VC, Lauriello J, Bustillo JR, Schulz SC, Andreasen NC, Calhoun VC, & Lim KO. (Under Review). Global White Matter Abnormalities in Schizophrenia: A Multicenter Diffusion Tensor Imaging Study.
44. Sponheim SR, **Jung RE**, Seidman LJ, Mesholam-Gateley R, Manoach DS, O'Leary DS, Ho BC, Andreasen NC, Lauriello J, Schulz SC. (Under Review). Cognitive Deficits in First-Episode and Chronic Schizophrenia.
45. Sibbitt WL Jr, Brooks WM, Kornfeld M, **Jung RE**, Bankhurst AD, Roldan CA: The Histopathologic Basis for Neurometabolite Abnormalities in Neuropsychiatric Systemic Lupus Erythematosus. *Arthritis & Rheumatism*,
46. Parks L, Phillips JP, Campbell RA, Brown AJ, Jung RE, Gasparovic C, & Yeo RA. (Under Review). Lateral and third ventricle volumes in pediatric traumatic brain injury: A longitudinal study,

#### Book Reviews

1. **Jung RE**. (2005). Neuropsychological assessment, 4th edition. American Journal of Psychiatry. 162(6): 1237.

#### Book Chapters

1. Yeo RA, Brooks WM, **Jung RE**. (2006). NAA and Higher Cognitive Function in Humans. In Moffett J, Tieman S, Weinberger DR, Coyle JT, & Nambodiri AMA (Eds.). *N-acetylaspartate: A Unique Neuronal Molecule in the Central Nervous System*. Springer: New York.
2. **Jung RE** (In Press). Towards A Neuroscience of Creativity. Conference Proceedings of Studying Design Creativity: Design Science, Computer Science, Cognitive Science and Neuroscience Approaches.
3. **Jung RE** (In Press) "Brain Imaging", Encyclopedia of Giftedness, Creativity, and Talent

#### Published Abstracts

1. Chiulli SJ, **Jung RE**, & Yeo RA. (1997). Clinical Assessment of Attention and Emotional Functioning: Attention Process Training and Standard Approaches. *Archives of Clinical Neuropsychology*. 13:134.
2. **Jung RE**, Chiulli SJ, Friedman SD, Brooks WM, & Yeo RA. (1997). MRS of Brain N-Acetylaspartate Predicts Neuropsychological Performance Following Traumatic Brain Injury. *Archives of Clinical Neuropsychology*. 13:144.
3. **Jung RE**, Brooks WM, Ford CF, & Sibbitt WL. (1997). Proton Magnetic Resonance Spectroscopy Predicts Function in Neuropsychiatric Systemic Lupus Erythematosus. *Journal of Neuropsychiatry and Clinical Neurosciences*. 9:700.
4. **Jung RE**, Yeo RA, & Gangestad S. (1998). Developmental Instability Predicts Individual Variation in Verbal Memory Skill Following Caffeine Ingestion. *Journal of the International Neuropsychological Society*. 4:57.

5. Brooks WM, Welch KMA, **Jung RE**, Friedman SD, Stidley CA, & Sibbitt Jr. WL. (1999). 1H-MRS Evidence of a Mitochondrial Disorder in Migraine. *Cephalalgia*, 19:310.
6. **Jung RE**, Brooks WM, Chiulli SJ, Weers DC, Yeo RA, Sibbitt Jr. WL (1999). The Biochemical Markers of Intelligence and Cognition in Normal Human Brain. *Journal of Cognitive Neuroscience*. 11(Sup.): 61.
7. **Jung RE**, Chiulli SJ, Yeo RA, Brooks WM. (1999). "Myths of neuropsychology": Intelligence and cognitive ability revisited. *Archives of Clinical Neuropsychology*, 14:720-721.
8. **Jung RE**, Brooks WM, Weers DC, Yeo RA, & Sibbitt Jr. WL. (1999). 1H-MRS Markers of Intelligence: A Study in Normal Human Brain. *Proceedings of the International Society for Magnetic Resonance in Medicine*, 7, 1423.
9. Brooks WM, **Jung RE**, Stidley CA, Yeo RA, & Sibbitt Jr. WM. (1999). 1H-MRS is a functional measure: A Study of Cognition in Systemic Lupus Erythematosus. *Proceedings of the International Society for Magnetic Resonance in Medicine*, 7, 1455.
10. **Jung RE**, Rowland L, Bustillo J, Lauriello J, Petropoulos H, Hart B., & Brooks WM. (April, 2000). Differential Effects of Clozapine and Haloperidol on Motor Functioning, Parkinsonism, and Frontal Brain Chemistry in Schizophrenia: A Proton MR Spectroscopy Study. *Proceedings of the International Society for Magnetic Resonance in Medicine*, 9, 1172.
11. Brooks WM, Stidley CA, Petropoulos H, **Jung RE**, Weers DC, Friedman SD, Barlow MA, Sibbitt Jr WL, Yeo RA. (2000). Neuronal Recovery Following Traumatic Brain Injury: 1H-MRS Evidence in Humans. *Proceedings of the International Society for Magnetic Resonance in Medicine*, 9, 516.
12. **Jung RE**, Love T, Yeo RA, Chiulli SJ, Sibbitt WL, & Brooks WM. (2001). Mood, Biochemistry, and Cognition: A Proton MR Spectroscopy Study of Normal Human Brain. *Journal of the International Neuropsychological Society*. 7:235-6.
13. **Jung RE**, Love T, Zamora LL, Petropoulos H, Yeo RA, Chiulli SJ, Brooks WM. (2001). Biochemical markers of mood: A proton MR spectroscopy study of normal brain. *Brain and Cognition*, 47: 84-87.
14. **Jung RE**, Yeo RA, Rowland LM, Sibbitt Jr. WL, Bustillo J, & Brooks WM. (2002). Frontal Lobe Neurochemistry and Cognitive Ability: A <sup>1</sup>H-MRS Study of Normal Human Brain. *Proceedings of the International Society for Magnetic Resonance in Medicine*, 10, 230.
15. **Jung RE**, Rowland LM, Yeo RA, Barrow RA, Petropoulos H, Lauriello J, Bustillo JR, & Brooks WM. (2003). Regional Specificity of NAA - IQ relationships in Schizophrenia and Normal Brain. *Proceedings of the International Society for Magnetic Resonance in Medicine*, 11, 2006.
16. Rowland LM, Mullins PG, **Jung RE**, Lenroot R, Lauriello J, Brooks WM, Bustillo JR. (2003). Neurochemistry in chronic schizophrenia: A 4T-proton magnetic resonance spectroscopy study. *Schizophrenia Research*, 60(1):245.
17. **Jung RE**, Rowland LM, Barrow R, Lauriello J, Petropoulos H, Brooks WM, Bustillo JR. (2003). Caudate neurochemistry, clinical symptoms, and neuropsychological functioning in first episode schizophrenia: A proton magnetic resonance spectroscopy study. *Schizophrenia Research*, 60(1):241-242.
18. Lauriello J, Myers-Gutierrez A, Barrow R, Rowland LM, **Jung RE**, Petropoulos H, Brooks WM, Bustillo JR. (2003). Comparing hippocampal and amygdala volumes of chronically treated patients with schizophrenia to early schizophrenia patients utilizing MRI: Examining a possible contribution of antipsychotic treatment. *Schizophrenia Research*, 60(1):200-201.

19. Bergsohn C, Burtner PA, Phillips JP, Yeo RA, **Jung RE**, Campbell RC, Felton LA, Bedrick E, Turner AX, Parmenter AM. (2004). A preliminary study of magnetic resonance spectroscopy & motor recovery in pediatric TBI: Does amphetamine treatment affect outcome? *Journal of Neurotrauma*, 21(9):1321.
20. Phillips JP, Yeo RA, Campbell RC, Burtner PA, **Jung RE**, Felton LA, Brooks WM, Hart B, Bedrick E, Parmenter AM. (2004). Amphetamine and recovery in pediatric TBI: Preliminary results, *Journal of Neurotrauma*, 21(9):1320.
21. Phillips JP, **Jung RE**, Campbell RC, Weers D, Brooks WM, Kernen SJ, Brown AJ. (2004). Magnetic resonance spectroscopy in pediatric TBI: Prediction of cognitive but not motor deficits, *Journal of Neurotrauma*, 21(9):1302.
22. **Jung RE**, Rowland LM, Mullins PG, Lauriello J, Bustillo JR, & Yeo RA. (2004). N-acetylaspartate within frontal and parietal white matter differentially predicts intellectual functioning in normal brain. *Proceedings of the International Society for Magnetic Resonance in Medicine*, 11, 2431.
23. Mullins PG, Rowland LM, **Jung RE**, & Sibbitt WL. (2004). Functional Spectroscopy of Pain at 4T. *Proceedings of the International Society for Magnetic Resonance in Medicine*, 11, 108.
24. Rowland LM, Mullins PG, **Jung RE**, Lenroot R, Landgraff E, Lauriello J, & Bustillo JR. (2004). The Effects of Ketamine on Anterior Cingulate Glutamatergic Activity in Healthy Humans: A 4T 1H-MRS Study. *Proceedings of the International Society for Magnetic Resonance in Medicine*, 11, 2277.
25. Campbell R, Devier D, Gasparovic C, **Jung RE**, Morrison L, Tobon A. (2006). Temporal lobe biochemistry and non-verbal neurocognitive function in Myotonic Dystrophy Type I. *Proceedings of the International Society for Magnetic Resonance in Medicine*, 13.
26. Bockholt J, Caprihan A, Devier D, Gasparovic C, **Jung RE**, Morrison L, Mullins P, Posse S, Song T. (2006). Water as an internal reference for spectroscopic imaging: Variability due to partial volume estimates. *Proceedings of the International Society for Magnetic Resonance in Medicine*, 13.
27. Caprihan A, Devier D, Gasparovic C, **Jung RE**, Morrison L, Mullins P, Song T. (2006). Water as an internal reference for spectroscopic imaging: Methodology, application, and comparison to other methods. *Proceedings of the International Society for Magnetic Resonance in Medicine*, 11.
28. Jung RE. (2008). Multimodal neuroimaging of creativity. *International Journal of Psychophysiology*, 69(3): 179-179.

#### Conference Presentations

1. **Jung RE**, Thompson MG, Sanders JA, Hart BL, & Brooks WM. (July, 1999). 1H-MR Spectroscopy and Neuropsychological Assessment in Adult Onset Metochromatic Leukodystrophy with Bone Marrow Transplantation. *Presented at the 18<sup>th</sup> United Leukodystrophy Foundation National Conference - "Leukodystrophy: Evaluation of Therapies"*, Sycamore, IL.
2. **Jung RE**, Love T, Zamora LL, Petropoulos H, Yeo, RA, Chiulli SJ, & Brooks WM. (March, 2000). Biochemical markers of mood: A proton MR spectroscopy study of normal brain. *Presented to the 10th Annual Rotman Research Institute Conference: The Frontal Lobes*. Toronto, Canada.
3. Rowland LM, **Jung RE**, Mullins PG, Bustillo JR, Lauriello J, Petropoulos H, & Brooks WM. (November, 2002). Frontal Brain Chemistry in First-Episode & Chronic Schizophrenia: A Proton MR Spectroscopy Study. *Presented at the 32<sup>nd</sup> Annual Meeting of the Society for Neuroscience*. Orlando, FL.
4. Rowland L, **Jung RE**, Mullins P, Lauriello J, & Bustillo JR. (June, 2003). Neurochemistry of the Anterior Cingulate in Normal Volunteers and Schizophrenia: A

- 4T Proton Magnetic Resonance Spectroscopy Study. *Presented at 9<sup>th</sup> Annual meeting of the Organization for Human Brain Mapping. New York, NY.*
5. **Jung RE**, (2003). Neurochemical Correlates of g. *Presented at the Fourth Annual Conference of the International Society for Intelligence Research. Newport Beach, CA.*
  6. Brooks WM, Savage C, Liermann JA, Aupperle R, Schmitt A, **Jung RE**, and Yeo RA. (2004). Magnetic Resonance Spectroscopic Imaging at 3 Tesla and Cognitive Function in Traumatic Brain Injury. *Presented at the 3rd joint meeting of the International Neuropsychological Society and the Australian Society for the Study of Brain Impairment. Brisbane, Australia.*
  7. **Jung RE**, Haier RJ, Yeo RA, Rowland LM, Head K, Alkire M, and Gasparovic C. (2004). Brain Volume Correlates of Frontal and Occipito-parietal N-acetylaspartate. *Presented at the 1st International Symposium on N-acetylaspartate. Bethesda, Maryland.*
  8. **Jung RE**, Levine AS, Yeo RA, Haier RJ, Sibbitt WR, Brooks WM. Biochemical Markers of Individual Differences in Cognitive Functioning. *Presented at the 33<sup>rd</sup> Annual Meeting of the International Neuropsychological Society, 2-5 February 2005, St. Louis, MO.*
  9. **Jung RE** (Symposium Organizers). Biological Correlates of General Intelligence (“g”). *Symposium Presented at the 33<sup>rd</sup> Annual Meeting of the International Neuropsychological Society, 2-5 February 2005, St. Louis, MO.*
  10. Levine AS, & **Jung RE**. Cognitive Spectroscopy: A window to neuropsychological functioning. *Presented at the 33<sup>rd</sup> Annual Meeting of the International Neuropsychological Society, 2-5 February 2005, St. Louis, MO.*
  11. **Jung RE**, Dencoff JE, Adair J, Rosenberg GA. Matrix Metalloproteinases Predict Degree of Cognitive Dysfunction in Vascular Cognitive Impairment. *Presented at the Second Congress of the International Society for Vascular and Cognitive Disorders (VAS-COG), 8-12 June 2005, Florence, Italy.*
  12. Haier RJ & **Jung RE** (Symposium Organizers). Brain Imaging Studies of Intelligence: Closing in on the Neuroanatomy of Individual Differences. *Presented at the Sixth Annual Conference of the International Society for Intelligence Research (ISIR), 1-3 December 2005, The MIND Institute, Albuquerque, New Mexico.*
  13. **Jung RE**, Levine AS, Yeo RA, Haier RJ. Biochemical Markers of Individual Differences in Cognitive Functioning. *Presented at the Sixth Annual Conference of the International Society for Intelligence Research (ISIR), 1-3 December 2005, The MIND Institute, Albuquerque, New Mexico.*
  14. Colom R, Haier RJ (Presenter), **Jung RE**, Correlated vectors, g, and gray matter: A frontal-parietal network and the Einstein hypothesis. *Presented at the Sixth Annual Conference of the International Society for Intelligence Research (ISIR), 1-3 December 2005, The MIND Institute, Albuquerque, New Mexico.*
  15. England R, Caprihan A, Mullins PG, Bockholt HJ, Gasparovic C, Levine AS, Barrow R, & **Jung RE**. Sex Mediated Relationships Between Diffusion Tensor Imaging Measures of the Corpus Callosum, Intelligence, and Personality. *Presented at the 12th Annual Meeting of the Organization for Human Brain Mapping, June 11-15, 2006, Florence, Italy.*
  16. **Jung RE**, Bockholt HJ, Caprihan A, Magnotta V, Harris S, Williams S, Mullins PG, England R, Levine AS, & Gasparovic C. Structural Brain Mapping of Normal Mood and Personality Functioning: A 4 Tesla Volumetric and Connectivity Study. *Presented at the 12th Annual Meeting of the Organization for Human Brain Mapping, June 11-15, 2006, Florence, Italy.*
  17. **Jung RE**, England R, Devier D, Barrow R, Levine AS, Caprihan A, Gasparovic C, Bockholt HJ, & Mullins PG. Proton Magnetic Resonance Spectroscopy of Normal Human Brain: Correlates with Intelligence, Personality, and Creativity. *Presented at the*

- 12th Annual Meeting of the Organization for Human Brain Mapping, June 11-15, 2006, Florence, Italy.*
18. Haier RJ, **Jung RE**, and Alkire MT. Mapping gray matter distributions in high and average IQ groups. *Presented at the Seventh Annual Conference of the International Society for Intelligence Research (ISIR), 14-16 December 2006, Hyatt at Fisherman's Wharf, San Francisco, CA.*
  19. Johnson W, **Jung RE**, Colom R, and Haier RJ. Cognitive abilities independent of IQ correlate with regional brain structure. *Presented at the Seventh Annual Conference of the International Society for Intelligence Research (ISIR), 14-16 December 2006, Hyatt at Fisherman's Wharf, San Francisco, CA.*
  20. **Jung RE**, Kalbfleisch ML, England RL, Bockholt HJ, Barrow R, Segall JM, Paar MH, Smith SM, Chavez R, & Haier RJ. Neuroanatomy of Creativity. *Presented at the 37th annual meeting of the Society for Neuroscience, San Diego, CA, 3 – 7 November 2007.*
  21. Ruhl DA, Thoma RJ, Bockholt HJ, Monnig M, **Jung RE**, Lauriello J, & Bustillo J. Cerebellar Cortical Volume and Executive Functioning in Schizophrenia. *Presented at the 36<sup>th</sup> Annual International Neuropsychological Society Meeting, Waikoloa, HI, 6 – 9 February, 2008.*
  22. Verney SP, **Jung RE**, & Garcia C. Sustained Attention on the Work Sample Test is Associated with Cognitive Ability. *Presented at the 36<sup>th</sup> Annual International Neuropsychological Society Meeting, Waikoloa, HI, 6 – 9 February, 2008.*
  23. Bennett J, Verney SP, & **Jung RE**. Assessing Creativity and Intelligence in an Ethnically Diverse Sample. *Presented at the 36<sup>th</sup> Annual International Neuropsychological Society Meeting, Waikoloa, HI, 6 – 9 February, 2008.*
  24. Chavez R, Caprihan A, England R, Smith S, Segall S, Barrow R, & **Jung RE**. Corpus Callosum Contributions to Creativity: A Diffusion Tensor Imaging Study. *Presented at the 15<sup>th</sup> Annual Meeting of the Cognitive Neuroscience Society, San Francisco, CA, 12-15 April, 2008.*
  25. Smith S, Segall J, Chavez R, Bockholt HJ, & **Jung RE**. Subcortical Volumetric Contributions to Mood Functioning in Normal Subjects. *Presented at the 15<sup>th</sup> Annual Meeting of the Cognitive Neuroscience Society, San Francisco, CA, 12-15 April, 2008.*
  26. **Jung RE**, Barrow R, Chavez R, Smith S, & Gasparovich C. Biochemical Correlates of Creativity. *Presented at the 15<sup>th</sup> Annual Meeting of the Cognitive Neuroscience Society, San Francisco, CA, 12-15 April, 2008.*
  27. Segall J, Bockholt HJ, Barrow R, Smith S, Chavez R, & **Jung RE**. Positive and Negative Affect Measurement in Healthy Volunteers: A FreeSurfer Study of Cortical Thickness. *Presented at the 15<sup>th</sup> Annual Meeting of the Cognitive Neuroscience Society, San Francisco, CA, 12-15 April, 2008.*
  28. Caprihan A, Barrow R, Chavez R, Bockholt H.J. & **Jung RE**. Correlation of White Matter integrity Measured by DTI with Intelligence, Personality, and Creativity in Healthy Subjects. *Presented at the 14<sup>th</sup> Annual Meeting of the Organization for Human Brain Mapping, Melbourne, Australia, 15 – 19 June, 2008.*
  29. Bockholt HJ, Williams S, Scully M, Magnotta V, Gollub R Lauriello J, Lim K, White T, **Jung RE**, Schulz C, Andreasen N, & Calhoun V. The MIND Clinical Imaging Consortium as an application for novel comprehensive quality assurance procedures in a multi-site heterogeneous clinical research study. *Presented at the 14<sup>th</sup> Annual Meeting of the Organization for Human Brain Mapping, Melbourne, Australia, 15 – 19 June, 2008.*
  30. **Jung RE**, Bockholt HJ, Segall J, Caprihan A, Chavez R, Smith S, & Kalbfleisch ML. Creative Achievement and Cortical Thickness in a Large Healthy Cohort. *Presented at the 14<sup>th</sup> Annual Meeting of the Organization for Human Brain Mapping, Melbourne, Australia, 15 – 19 June, 2008.*

31. **Jung RE**, Bockholt HJ, Segall J, Caprihan A, Smith S, Chavez R, Yeo RA, & Haier RJ. General Intelligence (g) and Intelligence in General (FSIQ) as Manifested in the Brain. *Presented at the 14<sup>th</sup> Annual Meeting of the Organization for Human Brain Mapping, Melbourne, Australia, 15 – 19 June, 2008.*
32. **Jung RE**. Multimodal Neuroimaging of Creativity. Presented at the 14<sup>th</sup> World Congress of Psychophysiology. *Psychophysiology of Creativity: N.P. Bechtereva and A. Dietrich – Chairs*. St. Petersburg, Russia. 8 – 13 September, 2008.
33. **Jung RE**, Gasparovic C, Caprihan A, Bockholt HJ, Chavez R, Segall J, Leyba L, Smith S, Flores R, Haier RJ. A neuroanatomical model of creativity: convergent versus divergent reasoning. *Presented at the 38th annual meeting of the Society for Neuroscience, Washington, DC, 15 – 19 November 2008.*
34. Bockholt HJ, Magnotta VA, Scully M, Gasparovic C, Davis B, Pohl K, Whataker R, Pieper S, Roldan C, **Jung R**, Hayek R, Sibbitt W, Sharrar J, Kikinis R. A novel automated method for classification of white matter lesions in systemic lupus erythematosus. *Presented at the 38th annual meeting of the Society for Neuroscience, Washington, DC, 15 – 19 November 2008.*
35. Scully MS, Anderson B, Lane T, Bockholt HJ, Clark VP, Calhoun V, Gollub R, Ho B, Lauriello J, White T, & **Jung R**. A dynamic Bayesian network analysis of functional network differences during the auditory oddball task, related to general intelligence. *Presented at the 38th annual meeting of the Society for Neuroscience, Washington, DC, 15 – 19 November 2008.*
36. **Jung RE**, Flores R, Sharrar J, Qualls C, Sibbitt W, & Roldan CA. Libman-Sacks vegetations are associated with motor cognitive dysfunction in patients with systemic lupus erythematosus. *Stroke*,
37. Chavez RS, Caprihan A, Smith SM, Marshall A, Barrow R, Grazioplene R, & **Jung R**. Creativity: The other white matter. *Presented at the 16<sup>th</sup> Annual Meeting of the Cognitive Neuroscience Society, San Francisco, CA, 21-24 March, 2009.*
38. Segall J, Flores R, Smith S, Bockholt J, Chavez R, Marshall A, Grazioplene R, & **Jung R**. Morphological study on the correlation between IQ and creativity. *Presented at the 16<sup>th</sup> Annual Meeting of the Cognitive Neuroscience Society, San Francisco, CA, 21-24 March, 2009.*
39. Grazioplene R, Segall J, Chavez R, Flores R, Smith S, Marshall A, & **Jung R**. Investigating neuromyths of social brain pathologies and creativity. *Presented at the 16<sup>th</sup> Annual Meeting of the Cognitive Neuroscience Society, San Francisco, CA, 21-24 March, 2009.*
40. **Jung R**, Chavez R, Caprihan A, & Bockholt J. White matter contributions to broad cognitive dysfunction in schizophrenia. *Presented at the 16<sup>th</sup> Annual Meeting of the Cognitive Neuroscience Society, San Francisco, CA, 21-24 March, 2009.*
41. Leyba L, Mayer A, Franco A, Chavez R, Smith S, Flores R, Marshall A, Grazioplene R, & **Jung R**. Default network relationships to intelligence and creativity in normal subjects. *Presented at the 16<sup>th</sup> Annual Meeting of the Cognitive Neuroscience Society, San Francisco, CA, 21-24 March, 2009.*
42. **Jung RE**, Intelligence and the ‘lost’ (i.e., parietal) lobe. *Presented at the Functions of the Parietal Lobe, Joint Research Workshop of the Institute for Advanced Studies and the Israel Science Foundation, Jerusalem, Israel, March 29 – April 2, 2009.*
43. **Jung RE**, Caprihan A, Chavez RS, Flores RA, & Haier RJ. Diffusion tensor imaging of creativity in normal human subjects. *Presented at the 17<sup>th</sup> Annual Meeting of the International Society for Magnetic Resonance in Medicine, Honolulu, HI, 18-24 April, 2009.*
44. **Jung RE**, Segall J, Bockholt HJ, Flores RA, Smith SM, Chavez RS, Haier RJ. Cortical thickness correlates of intelligence, creativity, and personality in a large unified cohort.

- Presented at the Annual meeting of the International Society for the Study of Individual Differences, Chicago, IL 18-22 July, 2009.*
45. **Jung RE**, Chavez RS, Grazioplene R, Smith SM, Leyba LT, Segall J, Caprihan A. Divine Madness. *Presented at the 39th annual meeting of the Society for Neuroscience, Chicago, IL, 17 – 21 October 2009.*
  46. **Jung RE**, *Presented at the New Voices in Creativity and Intelligence Symposium, University of Kansas, Lawrence, KS, 1-3 November, 2009.*

#### Invited Lectures

1. **Jung RE** (1999). “Biochemical Markers of Cognition in Disease and Health.” Presented at the Haught Memorial Research Lecture, Department of Psychology, University of New Mexico, Albuquerque, NM.
2. **Jung RE**, (2004). “Magnetic Resonance Spectroscopy: Imaging Cognition ‘Through a Glass Darkly’.” Presented at Neurology Grand Rounds, University of New Mexico Health Science Center, Albuquerque, NM.
3. **Jung RE**, (2004). “Cognitive Spectroscopy: the Biochemistry of Neuronal Pathways Underlying g.” Presented at the Human Evolutionary Behavioral Science (HEBS) Network. Albuquerque, New Mexico.
4. **Jung RE**, (2005). “Where in the Brain is Intelligence?” Presented at Neurology Grand Rounds, University of New Mexico Health Science Center, Albuquerque, NM.
5. **Jung RE**, (2005). “Sex Matters: Gray and White.” Presented at Neurology Grand Rounds, University of New Mexico Health Science Center, Albuquerque, NM.
6. **Jung RE**, (2005). “Sex Differences in Brain Organization and Cognition.” Presented to the American Association of University Women, MIND Institute, Albuquerque, NM.
7. **Jung RE**, (2005). “Creativity and the Brain: When Smarts are not Enough.” University of New Mexico Undergraduate Research and Creativity Symposium, Student Union Building, Albuquerque, NM.
8. **Jung RE**, (2006). “Genius.” Presented at Neurology Grand Rounds, University of New Mexico Health Science Center, Albuquerque, NM.
9. **Jung RE**, (2006). “The Mystery of Genius.” Presented to the American Association of University Women, The MIND Institute, Albuquerque, NM, 4 November, 2006.
10. **Jung RE**, (2007). “Neuroscience of Creativity.” Krasnow Institute, August 13, 2007.
11. **Jung RE**, (2007). “The Parieto-Frontal Integration Theory (P-FIT) of Intelligence: Converging Neuroimaging Evidence. Texas Tech University, Lubock, September 25, 2007.
12. **Jung RE**, (2007). “The Neuroscience of Creativity”. Neurology Grand Rounds, University of New Mexico Health Sciences Center, Albuquerque, NM, August 3, 2007.
13. **Jung RE**, (2008) “Towards a Neuroscience of Creativity.” Psychology Colloquium, Albuquerque, New Mexico, February 15, 2008.
14. **Jung RE**, (2008) “A Hodgepodge of Creativity Findings: Can a Theory Emerge?” Neurology Grand Rounds, University of New Mexico Health Sciences Center, Albuquerque, NM, December 12, 2008.
15. **Jung RE**, (2009) “The Creative Brain: From Neuromythology to Neuroscience” Information Science and Technology Center, Los Alamos National Laboratory, February 25, 2009.
16. **Jung RE**, (2009) “Positive Neuroscience” Neuroscience Grand Rounds, University of New Mexico Health Sciences Center, March 5, 2009.
17. **Jung RE**, (2009) Neuroscience of Creativity and Intelligence: Implications for Education. Presented at the Learning and the Brain Society Conference on the Creative Brain: Using Brain Research on Creativity and the Arts to Improve Learning, Washington, DC, 6-9 May, 2009.

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18. **Jung RE**, (2009) Towards a Neuroscience of Creativity. Presented at the 3<sup>rd</sup> Annual CAIS Summer Institute: The Brain – Learning and Applications. Avon, CT, 18-19 August, 2009.

#### News Items in Other Scientific Journals

1. Science: “The Matter with IQ”, 6 August 2004, Volume 305, pg. 774.
2. Nature: “Gray Matter Matters for Intellect”, 21 July 2004.
3. Applied Neurology: “Matters of Intelligence”, February 2005.
4. Innovation: “They call it Neurosystems Engineering”, June-July 2008, pg. 23-26.
5. New Scientist: “Creativity’s Complex Relationship with IQ”, May 16-22 2009, pg. 14.

#### Print Media

1. Albuquerque Journal: “With brains, gray does matter”, 22 July 2004.
2. MSNBC: “Genders really do think differently”, 20 January 2005  
<http://www.msnbc.msn.com/id/6849058/>
3. New York Times: Natalie Angier and Kenneth Chang “Gray Matter and Sexes: A Scientific Gray Area” 24 January 2005.
4. Albuquerque Journal: “Male, female brains differ” 24 January 2005.
5. Reuters: “IQ-related areas may differ in men, women,” 31 January 2005.
6. Albuquerque Tribune: “Intelligence is Determined by Genes, Environment” 16 October 2006.
7. New Mexico Business Weekly: “MIND Researcher to Study Creativity” 27 April 2007
8. Albuquerque Tribune: “University of New Mexico Scientist Seeks Root of Creativity in the Brain” 30 July 2007, <http://www.abqtrib.com/news/2007/jul/30/university-new-mexico-scientist-seeks-root-creativ/>
9. Albuquerque Journal: “Picking Artists Brains” 17 August 2007
10. Albuquerque Journal: “What Makes People Smart?” 1 September 2007
11. Associated Press Wire Service: “Researchers Develop Intelligence Model” 18 September 2007
12. UNMed Magazine: “Positive Neuroscience: MIND Research Network to Investigate Creativity” Fall 2007
13. Business Wire: “Biological Model for Human Intelligence Revealed” 4 October 2007
14. Dana Foundation: “Where in the Brain is Intelligence” Tom Valeo, 4 April 2008  
<http://www.dana.org/news/features/detail.aspx?id=11918>
15. Itogi Magazine (Russian): “In the Creative Rhythm” Alla Astakhova, 28 October 2008  
[http://itogi.ru/Paper2008.nsf/Article/Itogi\\_2008\\_09\\_29\\_01\\_2637.html](http://itogi.ru/Paper2008.nsf/Article/Itogi_2008_09_29_01_2637.html)
16. Santa Fe New Mexican: “Researchers Probe Schizophrenia’s Pathways in the Brain” Sue Vorenberg, 7 November 2008  
<http://www.santafenewmexican.com/SantaFeNorthernNM/Researchers-probe-schizophrenia-s-pathways-in-the-brain>
17. Albuquerque Journal: “Brain Keeps Making New Cells” Donna Olmstead, 9 November 2008
18. Santa Fe New Mexican: “Unraveling Mysteries of the Brain: Creativity works differently in high IQ brains, scientist finds” Sue Vorenberg, 5 May 2009  
[http://www.santafenewmexican.com/Local\\_News/Unraveling-mysteries-of-the-brain](http://www.santafenewmexican.com/Local_News/Unraveling-mysteries-of-the-brain)

#### Television

1. KOAT Action 7 News: Dr. Barry Ramo “The Truth About Brain Size” (Albuquerque), 7 December 2004, 10:00 p.m. MT.
2. KRQE News 13: Dick Knipfing “The MIND Institute” (Albuquerque), 22 November 2005, 4:30 p.m. MT.

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3. BBC 4: Armand Leroi “What Makes us Human” (England); 12 August 2006, 8:10 p.m. GMT. Rebroadcast on Discovery Channel (USA).
4. CNN: “Genius: quest for extreme brain power”, (USA); 17 September 2006, 10 p.m. ET. Rebroadcast 24 November 2006, December 2006;  
<http://www.cnn.com/CNN/Programs/genius/>
5. KOAT Action 7 News: Dr. Barry Ramo “Think You’re Smart?” (Albuquerque); September 18, 2006.
6. KRQE News 13: “CNN Promo – Genius” (Albuquerque); 12 September 2006.
7. KOB Eyewitness News 4: “Opportunity to Succeed” (Albuquerque); 23 August 2006, 7:00 p.m.
8. KRWG TV 22: “Opportunity to Succeed” (Las Cruces); 4 September 2006; 9:00 p.m.
9. BBC 2: “Horizon: Battle of the Brains” (England); 17 April 2007. Rebroadcast on Discovery Channel (USA).
10. KRQE News 13: Templeton Grant Interview with Deanna Saucedo; 27 July 2007.
11. KNME: “The Brain Fitness Program” (Albuquerque); 4 December 2007; 7:00 p.m. Rebroadcast 27 December 2007 & 1 January 2008.