



## Brain Resource – Key Papers

Publications on the standardized methods have resulted from participation in Brain Resource funded studies and BRAINnet (the independently governed collaborative scientific network of researchers using data from the standardized methods for scientific purposes)

### Standardized Assessment and Database; 'Integrative Neuroscience'

1. Gordon E, Barnett KJ, Cooper N, Tran N, Williams LM (2008). An 'integrative neuroscience' platform: application to profiles of negativity and positivity. *Journal of Integrative Neuroscience*, 7(3): 345-366.
2. Williams LM, Gatt JM, Hatch A et al (2008). The INTEGRATE Model of emotion, thinking and self regulation: an application to the 'paradox of aging', *Journal of Integrative Neuroscience*, 7(3): 367-404.
3. Williams, L M; Gordon, E (2007) Dynamic organization of the emotional brain: responsivity, stability, and instability.. *The Neuroscientist : a review journal bringing neurobiology, neurology and psychiatry* 13 (4): 349-70.
4. Hatch, A et al. (2010) In First Presentation Adolescent Anorexia Nervosa, Do Cognitive Markers of Underweight Status Change with Weight Gain Following a Refeeding Intervention? *International Journal Eating Disorders* 2010; 43:295-306)
5. Williams LM, Nagy MT, Docherty J, Gordon E; Emotion, Thinking, and Brain Synchrony in Schizophrenia: An Integrative Model. *Mind & Brain, the Journal of Psychiatry*, May 2010; 1(1): 87-99
6. Gordon, E; Liddell, B J; Brown, K J; Bryant, R; Clark, C R; DAS, P; Dobson-Stone, C; Falconer, E; Felmingham, K; Flynn, G; Gatt, J M; Harris, A; Hermens, D F; Hopkinson, P J; Kemp, A H; Kuan, S A; Lazzaro, I; Moyle, J; Paul, R H; Rennie, C J; Schofield, P; Whitford, T; Williams, L M Integrating objective gene-brain-behavior markers of psychiatric disorders. (2007). *Journal of integrative neuroscience* 6 (1): 1-34.

### Cognition: IntegNeuro

7. Silverstein SM, Berten S, Olson P, Paul R, Williams LM, Cooper N, Gordon E (2007). Development and validation of a world-wide-web-based neurocognitive assessment battery: WebNeuro. *Behavior Research Methods*, 39(4): 940-949
8. Clark CR, Paul RH, Williams LM, Arns M, Fallahpour K, Handmer C & Gordon E. (2006). Standardized assessment of cognitive functioning during development and aging using an automated touchscreen battery. *Archives of Clinical Neuropsychology*, 21, 449 – 467.
9. Paul RH, Lawrence J, Williams LM, Clark RC, Cooper N & Gordon E. (2005). Preliminary validity of 'IntegNeuro': A new computerized and standardized battery of neurocognitive tests. *International Journal of Neuroscience*, 115, 1549 – 1567.
10. Williams LM, Simms E, Clark CR, Paul RH, Rowe D, Gordon E. (2005). The test-retest reliability of a standardized neurocognitive and neurophysiological test battery: "NeuroMarker". *International Journal of Neuroscience*, 115, 1605-1630.
11. Paul RH; Gunstad J, Cooper N, Williams LM, Clark CR, Cohen RA, Lawrence JJ, Gordon E (2007). Cross-cultural assessment of neuropsychological performance and electrical brain function measures: additional validation of an international brain database. (2007). *International journal of neuroscience* 117 (4): 549-68.

### Cognition: WebNeuro

12. Brain Resource WebNeuro manual v1.4b  
[http://www.brainresource.com/uploads/WebNeuro\\_\\_Assessment\\_Manual\\_\\_V1.4b.pdf](http://www.brainresource.com/uploads/WebNeuro__Assessment_Manual__V1.4b.pdf)
13. Validity and Reliability: Silverstein et al, (2007). Development and Validation of a World Wide Web-Based Neurocognitive Assessment Battery: WebNeuro *Behavior Research Methods*, 39(4), 940-949.
14. Thinking norms: Mathersul, D et al, (2009). Explicit identification and implicit recognition of facial emotions: II. Core domains and relationships with general cognition. *Journal of clinical and experimental neuropsychology* 31 (3): 278-91
15. Emotion norms: Williams LM, et al, (2009). Explicit identification and implicit recognition of facial emotions: I. Age effects in males and females across 10 decades. *Journal of Clinical and Experimental Neuropsychology*, 31(3), 257-277

## Questionnaires: BRISC

16. Norms: Williams, L M; Gatt, J M; Hatch, A; Palmer, D M; Nagy, M; Rennie, C; Cooper, N J; Morris, C; Grieve, S; Dobson-Stone, C; Schofield, P; Clark, C R; Gordon, E; Arns, M; Paul, R H The integrate model of emotion, thinking and self regulation: an application to the "paradox of aging". (2008). *Journal of integrative neuroscience* 7 (3): 367-404.
17. Gordon, E; Barnett, K J; Cooper, N J; Tran, N; Williams, L M An "integrative neuroscience" platform: application to profiles of negativity and positivity bias. (2008). *Journal of integrative neuroscience* 7 (3): 345-66.
18. Williams LM, Gatt JM, Schofield PR, Olivieri G, Peduto A, Gordon E (2009). 'Negativity bias' in risk for depression and anxiety: brain-body fear circuitry correlates, 5-HTT-LPR and early life stress. *Neuroimage*, 47(3): 804-814 (special issue)
19. COMT Val(108/158)Met polymorphism effects on emotional brain function and negativity bias. (2010). Williams, L M; Gatt, J M; Grieve, S M; Dobson-Stone, C; Paul, R H; Gordon, E; Schofield, P R *NeuroImage*
20. Gatt JM, Wilcox, A, Gordon E & Williams LM. Predicting health and work outcomes: Functional correlates of the BRISC scale (under review).
21. Cohen RA, Paul RH, Stroud L, Gunstad J, Hitsman BL, McCaffery J, Sweet L, Niaura R, MacFarlane A, Bryant RA, Gordon E (2006). Early life stress and adult emotional experience: An international perspective. *International Journal of Psychiatry in Medicine*, 36 (1): 35-52

## High Impact Journals

22. Koslow, S H; Williams, L M; Gordon, E (2010) Personalized medicine for the brain: a call for action. *Molecular psychiatry* 15 (3): 229-30.
23. JM Gatt, CB Nemeroff, C Dobson-Stone, RH Paul, RA Bryant, PR Schofield E Gordon, AH Kemp, and LM Williams (2009) Interactions between BDNF Val66Met polymorphism and early life stress predict brain and arousal pathways to syndromal depression and anxiety. *Molecular Psychiatry* (2009) 14, 681-695
24. Williams, L.M., Brown, K.J., Palmer, D., Liddell, B.J., Kemp, A.H., Olivieri, G., Peduto, A., & Gordon, E. (2007). The Mellow Years?: Neural Basis of Improving Emotional Stability over Age. *The Journal of Neuroscience*, 26(24), 6422- 6430.

## Clinical Groups

25. ADHD: Williams, L.M., Hermens, D.F., Thein, T., Keage, H.A.D., Kohn, M.R., Clarke, S., Lamb, C., Crewther, D., Clark, C.R., & Gordon, E. (2010). Using brain-based cognitive measures to support clinical decisions in ADHD. *Pediatric Neurology* 42,118-126
26. ADHD: Williams, L M; Hermens, D F; Palmer, D; Kohn, M; Clarke, S; Keage, H; Clark, C R; Gordon, E (2008) Misinterpreting emotional expressions in attention-deficit/hyperactivity disorder: evidence for a neural marker and stimulant effects.. *Biological psychiatry* 63 (10): 917-26.
27. MCI: Liddell b et all (2007) Rates of Decline distinguish Alzheimer's Disease and Mild Cognitive Impairment relative to Normal Aging: Integrating Cognition and Brain function. *Journal of Integrative Neuroscience*, Vol. 6, No. 1, 141-174
28. Aging: Grieve, S M; Williams, L M; Paul, R H; Clark, C R; Gordon , E (2007). Cognitive aging, executive function, and fractional anisotropy: a diffusion tensor MR imaging study. *AJNR. American journal of neuroradiology* 28 (2): 226-35.
29. Aging: Williams, L.M., Brown, K.J., Palmer, D., Liddell, B.J., Kemp, A.H., Olivieri, G., Peduto, A., & Gordon, E. (2007). The Mellow Years?: Neural Basis of Improving Emotional Stability over Age. *The Journal of Neuroscience*, 26(24), 6422- 6430.
30. Aging: Brickman, A., Zimmermann, M. E., Paul, R. H., Grieve, S. M., Tate, D., Cohen, R. A., et al. (2006). Regional white matter volume and neuropsychological functioning across the adult lifespan. *Biological Psychiatry*, 60, 444-453.
31. Aging: Gunstad, J; Paul, R H; Brickman, A M; Cohen, R A; Arns, M; Roe, D; Lawrence, J J; Gordon, E (2006). Patterns of cognitive performance in middle-aged and older adults: A cluster analytic examination. *Journal of geriatric psychiatry and neurology* 19 (2): 59-64.