



### **Methodology**

Gordon E (2003). Integrative Neuroscience and Psychiatry. **Neuropsychopharmacology**, 28, 2-8

Integrative neuroscience in psychiatry: the role of a standardized database  
Gordon E (2003). **Australasian Psychiatry**, 11, 156 – 163

Gordon E, Cooper N, Rennie C, Hermens D & Williams (2005). Integrative neuroscience: the role of a standardized database. **Clinical EEG and Neuroscience**, 36, 64-75.

### **Test-Retest Reliability**

Williams LM et al. (2005). The test-retest reliability of a standardized neurocognitive and neurophysiological test battery: 'NeuroMarker'. **International Journal of Neuroscience**, 115 (12), 1605-130.

### **Cross-site Reliability/Consistency**

Paul RH et al. (2006). Cross cultural assessment of neuropsychological performance and electrical brain function measures: additional validation of an international brain database. **International Journal of Neuroscience** (in press).

### **Validity (convergent and divergent)**

Paul RH et al (2005). Preliminary validity of 'IntegNeuro™': A new computerized battery of neurocognitive tests. **International Journal of Neuroscience**, 115 (11), 1549-1567

### **Norms**

Clark CR et al (2006). Development of ageing across the lifespan using common neuropsychological indices on an automated test battery. **Archives of Clinical Neuropsychology**. (21), 449-467

## **Validation of application in clinical and treatment trials**

Cooper N, Debrota D, Keage H, Hermens D, Williams LM, Clark CR, Gordon E. (2005). The dose-dependent effect of methylphenidate on performance, cognition and psychophysiology. **Journal of Integrative Neuroscience**, 4, 123-144

Predicting stimulant medication response in ADHD: Evidence from an integrated profile of neuropsychological, psychophysiological and clinical factors

Hermens DF Cooper N, Kohn M, Clarke S, Gordon E, Williams LM (2005). **Journal of Integrative Neuroscience**, 4, 107 – 121

Responses to methylphenidate in adolescent AD/HD: evidence from concurrently recorded autonomic (EDA) and central (EEG and ERP) measures

Hermens DF, Clark S, Kohn M, Williams LM & Gordon E (2005). **International Journal of Psychophysiology**, 28, 21 - 33

## **Validation of application to clinical groups - ADHD**

Predicting stimulant medication response in ADHD: Evidence from an integrated profile of neuropsychological, psychophysiological and clinical factors

Hermens DF Cooper N, Kohn M, Clarke S, Gordon E, Williams LM (2005). **Journal of Integrative Neuroscience**, 4, 107-121. [PDF](#) (234 KB)

Distractibility in AD/HD Predominantly Preattentive and Combined Subtypes: The P3a ERP Component, Heart Rate and Performance

Keage HAD, Clark CR, Hermens DF, Kohn MR, Clarke S, Williams LM, Crewther D, Lamb C & Gordon E (2006). **Journal of Integrative Neuroscience**, 5, 139 - 158

Resting EEG theta activity predicts cognitive performance in ADHD

Hermens DF, Soei E, Clarke SD, Kohn MR, Gordon E & Williams LM (2005). **Paediatric Neurology**, 32, 248-256. [PDF](#) ( KB)

Sex differences in adolescent ADHD: Findings from concurrent EEG and EDA

Hermens DF, Kohn M, Clarke S, Gordon E & Williams LM (2005). **Clinical Neurophysiology**, 116, 1455-1463. [PDF](#) (142 KB)

Sex differences in adult ADHD: A double dissociation in brain activity and autonomic arousal?

Hermens D, Williams LM, Lazzaro I, Whitmont S, Melkonian D & Gordon E (2004). **Biological Psychology**, 66, 221-233. [PDF](#) (197 KB)

## **Cognitive Decline and Age-related cognitive change**

### EEG Markers for Cognitive Decline in Elderly Subjects with Subjective Memory Complaints

Alexander DM, Arns MW, Paul RH, Rowe DL, Cooper N, Esser AH, Fallahpour K, Stephan BCM, Heesen E, Breteler R, Williams LM & Gordon E (2006). **Journal of Integrative Neuroscience**, 5, 49 – 74

### Subcortical hyperintensities impact cognitive function among a select subset of healthy elderly

Paul RH, Haque O, Gunstad J, Tate D, Grieve S, Hoth K, Brickman A, Cohen R, Lange K, Jefferson A, MacGregor K, Gordon E (2005). **Archives of Clinical Neuropsychology**, 20, 697 - 704

### Cognitive aging, executive function and fractional anisotropy: A Diffusion Tensor MRI study

Grieve SM, Williams LM, Paul RH, Clark CR & Gordon E. (in press). **American Journal of Neuroradiology**,

### Patterns of cognitive performance in middle-aged and older adults: a cluster analytic examination

Gunstad J, Paul R, Brickman A, Cohen R, Arns M, Rowe DL, Lawrence JJ & Gordon E. (in press). **Journal of Geriatric Psychiatry and Neurology**, ,

### Regional white matter volume and neuropsychological functioning across the adult lifespan

Brickman AM, Zimmerman ME, Paul RH, Grieve SM, Tate DF, Cohen RA, Williams LM, Clark CR & Gordon E (in press). **Biological Psychiatry**,

### The 'mellow years': Neural basis of improving emotional stability over age.

Williams LM, Brown KJ, Palmer D, Belinda BJ, Kemp AH, Olivieri G, Peduto AS, Gordon E. (2006). **Journal of Neuroscience**, 26, 6422 – 6430

### Age-dependent change in executive function and Gamma 40Hz phase synchrony

Paul RH, Clark CR, Lawrence J, Goldberg E, Williams LM, Cooper N, Cohen RA, Brickman AM & Gordon E (2005). **Journal of Integrative Neuroscience**, 4, 63 – 76

### Category and letter verbal fluency across the adult lifespan: Relationship to EEG theta power

Brickman AM, Paul RH, Cohen RA, Williams LM, MacGregor KL, Jefferson AL, Tate DF, Gunstad J, & Gordon E (2005). **Archives of Clinical Neuropsychology**, 20, 561 – 573

### Preservation of limbic and paralimbic regions with aging

Grieve S, Clark CR, Williams LM & Gordon E (2005). **Human Brain Mapping**, 25, 391 - 401

## **Depression and Stress**

### Predicting Severity in Non-clinical Depression: Preliminary Findings using an Integrated Approach

Kemp AH, Hopkinson PJ, Stephan BCM, Clark CR, Gordon E, Bryant R & Williams LM (2006). **Journal of Integrative Neuroscience**, 5, 89 – 110

### Toward an Integrated Profile of Depression: Evidence from the Brain Resource International Database

Kemp AH, Stephan BCM, Hopkinson P, Sumich AL, Paul RH, Clark RC, Bryant RA, Gordon E, Williams LM (2005). **Journal of Integrative Neuroscience**, 4, 95 - 106

### Abnormal asymmetry of N200 and P300 event-related potentials in subclinical depression.

Sumich AL, Kumari V, Heasman BC, Gordon E, Brammer MJ (in press). **Journal of Affective Disorders**,

### Early life stress and adult emotional experience: an International Perspective

Cohen RA, Paul RH, Stroud L, McCaffrey J, Sweet L, Hitsman B, Gunstad J, Niaura R, McFarlane A, Bryant RA, Gordon E. (in press). **The International Journal of Psychiatry in Medicine**, , - ( KB).

### Early life stress and morphometry of the adult anterior cingulate cortex and caudate nuclei

Cohen RA, Grieve S, Hoth K, Paul RA, Sweet L, Tate D, Gunstad J, Stroud L, McCaffrey J, Hitsman B, Niaura R, Clark R, MacFarlane A, Bryant RA, Gordon E & Williams LM (in press). **Biological Psychiatry**,

### The impact of early life stress on psychophysiological, personality and behavioral measures in 740 non-clinical subjects.

McFarlane A, Clark CR, Bryant RA, Williams LM, Niaura R, Paul RH, Hitsman BL, Stroud L, Alexander D & Gordon E (2005). **Journal of Integrative Neuroscience**, 4, 27 – 40

### Associations between the COMT Val/Met Polymorphism, Early Life Stress and Personality among Healthy Adults

Hoth K, Paul RH, Williams LM, Dobson-Stone C, Todd E, Schofield PR, Gunstad J, Cohen R, Gordon E (in press). **Neuropsychiatric Disease and Treatment**,

## **Schizophrenia**

### Progressive grey matter atrophy over the first 2-3 years of illness in first-episode schizophrenia: a tensor-based morphometry study

Whitford TJ, Grieve SM, Farrow TF, Gomes L, Brennan J, Harris AWF, Gordon E, Williams LM (in press). **NeuroImage**,

### Diagnosis-related regional gray matter loss over two years in first episode schizophrenia and bipolar disorder

Farrow TFD, Whitford TJ, Williams LM, Gomes L & Harris AWF (2005). **Biological Psychiatry**, 58, 713 – 723

### Grey matter deficits and symptom profile in first episode schizophrenia

Whitford TJ, Farrow T, Harris AWF, Gomes L, Brennan B & Williams LM (2005). **Psychiatry Research: Neuroimaging**, 139, 229 - 238

## **Anxiety (PTSD)**

Integrative Assessment of Brain Function in PTSD: Brain Stability and Working Memory  
Veltmeyer MD, McFarlane AC, Bryant RA, Mayo T, Gordon E & Clark CR (2006).  
**Journal of Integrative Neuroscience**, 5, 123 – 138

Trauma modulates amygdala and medial prefrontal responses to consciously attended fear

Williams LM, Kemp AH, Felmingham K, Barton M, Olivieri G, Peduto AS, Gordon E & Bryant RA (2006). **Neuroimage**, 29, 347 – 357

Neural networks of information processing in Posttraumatic Stress Disorder: A Functional MRI Study

Bryant RA, Felmingham KL, Kemp AH, Barton M, Rennie CJ, Gordon E & Williams LM (2005). **Biological Psychiatry**, 58, 111 - 118

## **Obesity**

Obesity is Associated with Memory Deficits in Young and Middle-Aged Adults.

Gunstad J, Paul R., Cohen R. Tate, D. & Gordon, E. (in press). **Journal of Eating and Weight Disorders/ Studies on Anorexia, Bulimia, and Obesity.**, ,

BDNF Val66Met polymorphism is associated with body mass index in healthy adults

Gunstad J, Schofield P, Paul R, Spitznagel M, Cohen R, Williams LM, Kohn M & Gordon E (2006). **Neuropsychobiology**, 53, 153 - 156