

Discovery Science Brain Resource LabNeuro

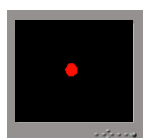


CONVERGING EVIDENCE FROM **EEG/ERP** **AND AUTONOMIC AROUSAL**

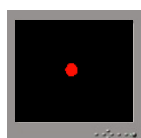
RAPID RESULTS
NEW INSIGHTS



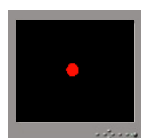
- ✓ Validated traditional psychophysiological tests used in clinical trials
- ✓ Brain Resource's Psychophysiological assessment provides confirmatory and complementary insights to cognitive testing
- ✓ Objective, fraction of a second indices of the biological underpinnings of cognition
- ✓ Earliest evidence of change is detected at the biological level
- ✓ Speed of information processing and neural synchrony reveal unique insights to help make sense of the complexities
- ✓ Simultaneous evaluation of brain function and body arousal allows crucial differentiation of state-trait effects of any treatment
- ✓ Body measures of arousal disentangle the effects of anxiety on cognition
- ✓ Provides a biologically plausible explanation of real-world behavior



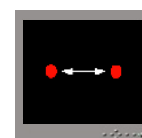
Resting EEG



Auditory
Habituation



Auditory Oddball



Visual Tracking



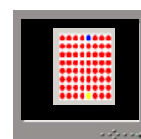
Go/No-Go



Conscious/subconscious
processing of facial
emotions



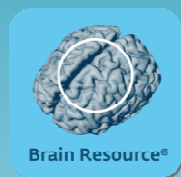
Continuous
Performance Test



Maze



Startle/PPI



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RAPID RESULTS
NEW INSIGHTS

✓ Psychometric qualities

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- Williams, L.M., Simms, E., Clark, C.R., Paul, R.H., 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.
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- Williams, L.M., Palmer, D., Liddell, B.J., Song, L., & Gordon, E. (2006). The 'when' and 'where' of perceiving signals of threat versus non-threat. *NeuroImage*, 31, 458 - 467.

.... solutions for brain research

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