

**Table S2. Correlations between the mean activation of each contrast map within each significant ROIs and the neuropsychological domains in the total sample (n=44).**

	<b>M-vs-B</b>	<b>P-vs-B</b>	<b>CML6-vs-B</b>	<b>CML15-vs-B</b>	<b>CML40-vs-B</b>
	<i>r (p)</i>	<i>r (p)</i>	<i>r (p)</i>	<i>r (p)</i>	<i>r (p)</i>
	<b>Right Lateral Area 7P</b>				
<b>Reading<sup>†</sup></b>	<i>0.312 (0.039)</i>	0.211 (0.168)	<i>0.552 (&lt;0.001)*</i>	<i>0.409 (0.006)</i>	<i>0.388 (0.009)</i>
<b>VWM<sup>‡</sup></b>	0.203 (0.191)	0.149 (0.339)	0.271 (0.079)	0.294 (0.056)	0.192 (0.218)
<b>SNWR<sup>§</sup></b>	<i>0.323 (0.033)</i>	<i>0.309 (0.042)</i>	0.272 (0.074)	<i>0.324 (0.032)</i>	0.259 (0.090)
	<b>Left Area PGp</b>				
<b>Reading<sup>†</sup></b>	0.249 (0.102)	0.167 (0.277)	<i>0.376 (0.012)</i>	<i>0.348 (0.021)</i>	0.223 (0.146)
<b>VWM<sup>‡</sup></b>	-0.013 (0.932)	-0.030 (0.851)	0.171 (0.273)	0.131 (0.402)	0.094 (0.548)
<b>SNWR<sup>§</sup></b>	0.083 (0.593)	0.091 (0.558)	0.183 (0.235)	0.212 (0.167)	0.066 (0.672)
	<b>Left Area V6A</b>				
<b>Reading<sup>†</sup></b>	0.132 (0.392)	-0.076 (0.624)	<i>0.311 (0.040)</i>	0.259 (0.090)	0.083 (0.590)
<b>VWM<sup>‡</sup></b>	0.040 (0.801)	-0.047 (0.765)	0.117 (0.453)	0.055 (0.728)	-0.061 (0.699)
<b>SNWR<sup>§</sup></b>	0.168 (0.275)	0.081 (0.601)	0.205 (0.182)	<i>0.305 (0.044)</i>	0.172 (0.263)
	<b>Right Medial Area 7A</b>				
<b>Reading<sup>†</sup></b>	0.192 (0.212)	0.170 (0.269)	<i>0.540 (&lt;0.001)*</i>	0.256 (0.093)	0.297 (0.050)
<b>VWM<sup>‡</sup></b>	0.159 (0.308)	0.102 (0.516)	<i>0.321 (0.036)</i>	0.267 (0.084)	0.210 (0.176)
<b>SNWR<sup>§</sup></b>	0.237 (0.122)	0.188 (0.222)	<i>0.322 (0.033)</i>	<i>0.350 (0.020)</i>	<i>0.322 (0.033)</i>
	<b>Left Ventro-Medial Visual Area 1</b>				
<b>Reading<sup>†</sup></b>	-0.032 (0.837)	-0.236 (0.122)	0.263 (0.085)	0.280 (0.065)	0.210 (0.170)
<b>VWM<sup>‡</sup></b>	0.111 (0.477)	0.045 (0.773)	<i>0.302 (0.049)</i>	0.262 (0.089)	0.285 (0.064)
<b>SNWR<sup>§</sup></b>	-0.080 (0.605)	0.083 (0.593)	<i>0.419 (0.005)</i>	<i>0.477 (0.001)</i>	<i>0.360 (0.016)</i>
	<b>Left Area Lateral Occipital 2</b>				
<b>Reading<sup>†</sup></b>	0.252 (0.099)	-0.121 (0.433)	0.286 (0.059)	0.260 (0.088)	<i>0.319 (0.035)</i>
<b>VWM<sup>‡</sup></b>	<i>0.419 (0.005)</i>	0.251 (0.104)	<i>0.442 (0.003)</i>	<i>0.315 (0.039)</i>	<i>0.410 (0.006)</i>
<b>SNWR<sup>§</sup></b>	<i>0.307 (0.043)</i>	0.115 (0.458)	0.231 (0.132)	<i>0.473 (0.001)</i>	<i>0.329 (0.029)</i>
	<b>Right Area IFJ posterior</b>				
<b>Reading<sup>†</sup></b>	<i>0.461 (0.002)</i>	0.208 (0.175)	<i>0.306 (0.043)</i>	0.123 (0.428)	0.167 (0.279)
<b>VWM<sup>‡</sup></b>	0.227 (0.144)	0.083 (0.598)	0.083 (0.595)	0.050 (0.749)	0.076 (0.626)
<b>SNWR<sup>§</sup></b>	0.180 (0.242)	0.178 (0.247)	0.220 (0.151)	0.023 (0.880)	-0.034 (0.827)
	<b>Right Ventro-Medial Visual Area 1</b>				
<b>Reading<sup>†</sup></b>	<i>0.331 (0.028)</i>	0.143 (0.354)	0.198 (0.197)	0.206 (0.179)	0.177 (0.251)
<b>VWM<sup>‡</sup></b>	0.215 (0.166)	0.212 (0.173)	0.127 (0.417)	-0.005 (0.976)	0.044 (0.777)
<b>SNWR<sup>§</sup></b>	0.170 (0.270)	0.158 (0.305)	<i>0.370 (0.014)</i>	<i>0.393 (0.008)</i>	<i>0.303 (0.046)</i>
	<b>Right Area 5-L</b>				

<b>Reading<sup>†</sup></b>	0.004 (0.978)	0.000 (0.999)	<i>0.492 (0.001)</i>	0.257 (0.092)	0.191 (0.214)
<b>VWM<sup>‡</sup></b>	-0.059 (0.708)	-0.066 (0.675)	0.279 (0.071)	0.300 (0.050)	0.201 (0.197)
<b>SNWR<sup>§</sup></b>	-0.118 (0.446)	-0.118 (0.447)	<i>0.322 (0.033)</i>	<i>0.414 (0.005)</i>	<i>0.321 (0.034)</i>
<b>Right Area PH</b>					
<b>Reading<sup>†</sup></b>	<i>0.428 (0.004)</i>	<i>0.314 (0.038)</i>	0.215 (0.162)	0.221 (0.150)	0.176 (0.254)
<b>VWM<sup>‡</sup></b>	0.273 (0.077)	0.161 (0.304)	-0.031 (0.843)	0.035 (0.823)	-0.022 (0.891)
<b>SNWR<sup>§</sup></b>	<i>0.383 (0.010)</i>	<i>0.337 (0.025)</i>	<i>0.391 (0.009)</i>	<i>0.420 (0.005)</i>	<i>0.324 (0.032)</i>
<b>Right Ventro-Medial Visual Area 2</b>					
<b>Reading<sup>†</sup></b>	0.289 (0.057)	0.070 (0.652)	0.173 (0.263)	0.179 (0.246)	0.121 (0.434)
<b>VWM<sup>‡</sup></b>	0.268 (0.083)	0.116 (0.459)	0.136 (0.385)	0.011 (0.945)	0.058 (0.713)
<b>SNWR<sup>§</sup></b>	0.123 (0.428)	0.161 (0.297)	<i>0.332 (0.028)</i>	0.273 (0.073)	0.194 (0.206)

Uncorrected significant correlations are reported in italics.

\* Significant after Bonferroni correction for multiple comparisons.

M-vs-B=M stimulus *versus* Baseline; P-vs-B=M stimulus *versus* Baseline; CML6-vs-B=Coherent Motion Level 6% *versus* Baseline; CML15-vs-B=Coherent Motion Level 15% *versus* Baseline; CML40-vs-B=Coherent Motion Level 40% *versus* Baseline; SNWR=single non-words repetition.

<sup>†</sup> Mean score of text [109-110], single unrelated words and pronounceable pseudo-words [111-112] reading tests.

<sup>‡</sup> Mean score of the Single Digit Forward Span, Single Digit Backward Span, Single Letter Forward Span, Single Letter Backward Span tasks [113].

<sup>§</sup> As assessed by the non-word repetition test [114].