

Additional file 2 Correlations between BA45 and scores from a post-experimental questionnaire

BA45L	R value														
Signal	F-I value			Difficulty			History			Practice			Age		
	Improv	Form	Subtract	Improv	Form	Subtract	Improv	Form	Subtract	Improv	Form	Subtract	Imp	Form	Subtract
oxy	0.102	0.256	0.007	0.031	0.040	0.050	0.005	0.025	0.004	0.008	0.010	0.000	0.000	0.032	0.007
deoxy	0.000	0.057	0.002	0.021	0.001	0.009	0.152	0.001	0.109	0.018	0.018	0.052	0.150	0.000	0.138

BA45R	R value														
Signal	F-I value			Difficulty			History			Practice			Age		
	Improv	Form	Subtract	Improv	Form	Subtract	Improv	Form	Subtract	Improv	Form	Subtract	Imp	Form	Subtract
oxy	0.002	0.256	0.011	0.005	0.000	0.035	0.043	0.026	0.034	0.024	0.095	0.001	0.041	0.017	0.045
deoxy	0.033	0.052	0.0542	0.027	0.003	0.030	0.007	0.005	0.002	0.033	0.006	0.001	0.016	0.048	0.000

Note: No high correlation was observed ($r > 0.5$) in any condition, that is, Improv > Formulaic (Subtract), Improv > Baseline (Imp), and Formulaic > Baseline (Form) tasks.