

Supplementary Figure 1. Heatmap for Pearson r correlation coefficients of mouse-tracking metrics

Flanker Effect Correlations

	IT	MT	RT	MD	AUC	MDtime
FlankerEffectIT						
FlankerEffectMT	0.372**					
FlankerEffectRT	0.493**	0.991**				
FlankerEffectMD	-0.274**	0.002	-0.037			
FlankerEffectAUC	-0.264**	0.055	0.014	0.933**		
FlankerEffectMDtime	0.496**	0.914**	0.929**	0.072	0.116	

Stroop Effect Correlations

	IT	MT	RT	MD	AUC	MDtime
StroopEffectIT						
StroopEffectMT	-0.070					
StroopEffectRT	0.048	0.993**				
StroopEffectMD	0.116	0.0362	0.050			
StroopEffectAUC	0.165	0.031	0.051	0.91**		
StroopEffectMDtime	0.129	0.951**	0.968**	0.081	0.090	

Flanker Sequential Congruency Effect Correlations

	IT	MT	RT	MD	AUC	MDtime
Flanker_IT_SCE						
Flanker_MT_SCE	-0.086					
Flanker_RT_SCE	0.155	0.971**				
Flanker_MD_SCE	0.001	0.092	0.091			
Flanker_AUC_SCE	-0.076	0.135	0.115	0.871**		
Flanker_MDtime_SCE	0.052	0.835**	0.841**	-0.019	0.058	

Stroop Sequential Congruency Effect Correlations

	IT	MT	RT	MD	AUC	MDtime
Stroop_IT_SCE						
Stroop_MT_SCE	0.024					
Stroop_RT_SCE	0.427**	0.914**				
Stroop_MD_SCE	-0.179	0.272**	0.173			
Stroop_AUC_SCE	-0.058	0.25*	0.203*	0.877**		
Stroop_MDtime_SCE	0.389**	0.621**	0.719**	0.062	0.127	

** . Correlation is significant at the 0.01 level (2-tailed).

* . Correlation is significant at the 0.05 level (2-tailed).

Note. Purple values indicate positive correlations, and blue values indicate negative correlations. Darker values indicate stronger, lighter values indicate weaker correlations.