

Measure	Pearson <i>r</i>	P value
Change in Pavlovian – Congruent conditions:		
r(change in G2W performance , reduction of Pav. Bias)	-0.11	0.010
r(change in NG2AL performance , reduction of Pav. Bias)	-0.20	1.7e-06
Change in Pavlovian – Incongruent conditions:		
r(change in NG2W performance , reduction of Pav. Bias)	0.33	< 1e-10
r(change in G2AP performance , reduction of Pav. Bias)	0.62	< 1e-10

Table S3. Support for the theoretically expected relationship between Pavlovian bias and performance. Other things being equal, a decrease in Pavlovian bias should improve performance in the Pavlovian-inconsistent conditions (+ve pearson *r* by convention in this table) and decrease performance in the Pavlovian-consistent conditions (-ve *r*). To test this, we tested the hypothesis on each condition separately, adopting a multiple comparison threshold of $p=0.05/4 = 0.0125$. We found significant evidence for all expected correlations.