

Table 1

Frequency and probability of spurious significant p-values of a given length obtained from Monte Carlo simulations

Sample Length	λp (msec)	Number of Simulations	Probability	Cumulative Probability
1	12.5	29562	0.147810	0.147810
2	25.0	152418	0.762090	0.909900
3	37.5	17041	0.085205	0.995105
4	50.0	927	0.004635	0.999740
5	62.5	50	0.000250	0.999990
6	75.0	1	0.000005	0.999995
7	87.5	1	0.000005	1.000000

Table 2

Duration, timing, and average p-value of differential SCRs observed during Trial 1 of Experiment I

Group	Average Tp	df	Sample Length	λp (sec)	Onset	Offset
Trial 1						
S+ > S-, D+, D-	0.013	(1,19)	302	3.76	4.23	Trial End
S- > D+, D-	--	(1,19)	0	--	--	--
D+ > D-	--	(1,19)	0	--	--	--

Note. S+ denotes the previous CS+ (Group SAME CS+). S- denotes the previous CS- (Group SAME CS-). D+ and S- denote the two novel stimuli which will become the CS+ and CS- for Group DIFFERENT.

Table 3

Duration, timing, and average p-value of differential SCRs observed during Experiment I

Group	Average T_p	Df	Sample Length	λp (sec)	Onset	Offset
Acquisition						
Main Effects						
Group	--	(1,18)	--	--	--	--
CS	0.005	(1,18)	280	3.49	4.01	Trial End
Trial	0.036	(2,36)	53	0.65	3.69	4.34
Two-way Interactions						
Group x CS	--	(1,18)	--	--	--	--
Group x Trial	0.029	(2,36)	107	1.33	3.01	4.34
CS x Trial	0.023	(2,36)	292	3.64	2.18	5.81
Three-way Interaction						
Group x CS x Trial	--	(2,36)	--	--	--	--
Post hoc t-tests						
SAME	0.024	29	228	2.85	4.66	Trial End
DIFFERENT	0.049	29	59	7.23	5.44	6.66
Extinction						
Main Effects						
Group	--	(1,18)	--	--	--	--
CS	--	(1,18)	--	--	--	--
Trial	--	(2,36)	--	--	--	--
Two-way Interactions						
Group x CS	--	(1,18)	--	--	--	--
Group x Trial	--	(2,36)	--	--	--	--
CS x Trial	0.017	(2,36)	324	4.04	0	4.04
Three-way Interaction						
Group x CS x Trial	--	(2,36)	--	--	--	--

Table 4

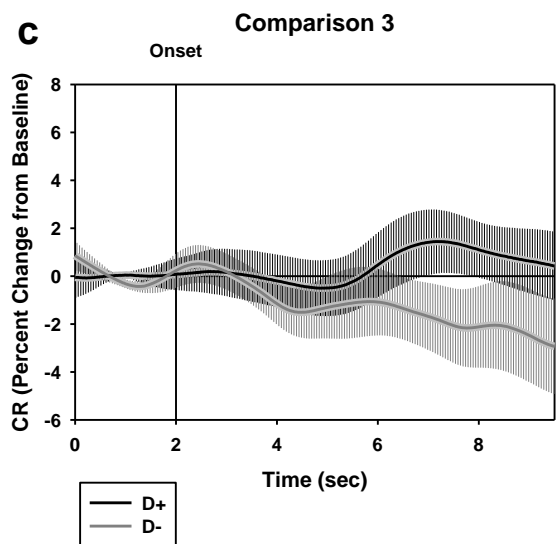
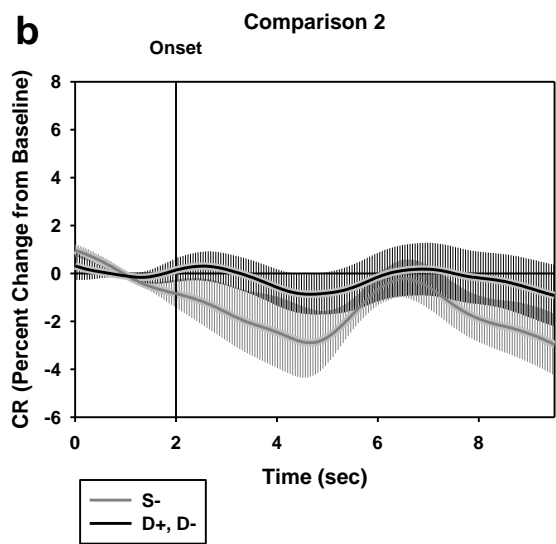
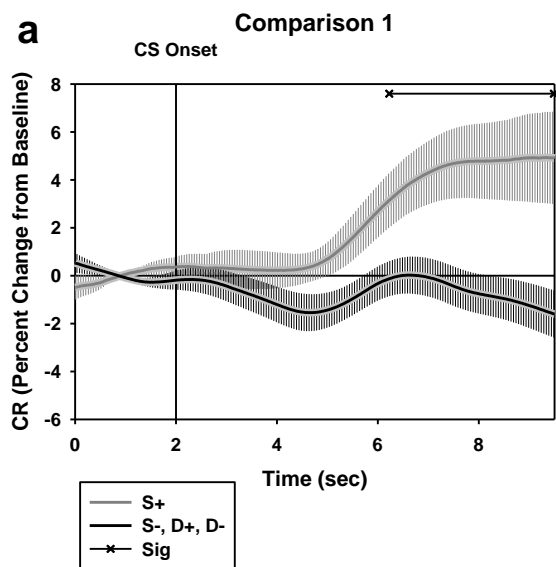
Duration, timing, and average p-value of differential SCRs observed during Experiment II

Group	Average T_p	Df	Sample Length	λp (sec)	Onset	Offset
Main Effects						
Group	--	(1,19)	0	--	--	--
CS	0.027	(1,19)	200	2.50	5.01	Trial end
Trial	0.008	(5,19)	358	4.48	3.04	Trial end
Two-way Interactions						
Group x CS	0.020	(1,19)	124	1.55	5.96	Trial end
Group x Trial	--	(5,95)	0	--	--	--
CS x Trial	0.017	(5,95)	235	2.94	4.58	Trial end
Three-way Interaction						
Group x CS x Trial	--	(5,90)	0	--	--	--
Post hoc t-tests [#]						
BLOCK	--	59	--	--	--	--
CONTROL	0.022	65	163	2.04	5.48	Trial end

Note. [#]We calculated the post-hoc t-tests on a subject-by-trial basis. For each subject and each trial we contrasted the CS+ response with the CS- response. Because we had multiple trials, our DF was equal to the number of subjects multiplied by the number of trials – 1.

Supplemental Figure 1. Masked training in Phase I affects SCR timecourse prior to exposure to the Phase II CS-UCS contingencies. (a) Participants shown the previously reinforced stimulus (S+; $n = 5$) show a larger magnitude SCR than those shown the previously unreinforced stimulus or novel stimuli (S-, D+, D-) during the first trial of Phase II. (b) Participants shown the previously unreinforced stimulus (S-; $n = 5$) show a similar magnitude SCR as those shown novel stimuli (D+, D-). (c) Participants shown the novel stimuli show a similar magnitude SCR whether or not that stimulus will be later paired with the shock (D+, $n = 6$; D-, $n = 4$). Horizontal lines at top of graph indicate p-values < 0.05 . Plots represent $M \pm SEM$.

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Supplemental Figure 2. Neither group shows differential SCR expression during extinction (a = SAME, $n = 10$; b = DIFFERENT, $n = 10$). Plots represent $M \pm SEM$.

