

## Supplemental Information

### Neural correlates of biased social fear learning and interaction in an intergroup context

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#### Contents of Supplemental Information

##### 1. Supplemental Figures

Figure S1. *RFX Plot: Overall activity split in three time bins during Acquisition.*

Figure S2. *SCR Plot over Trials: Habituation.*

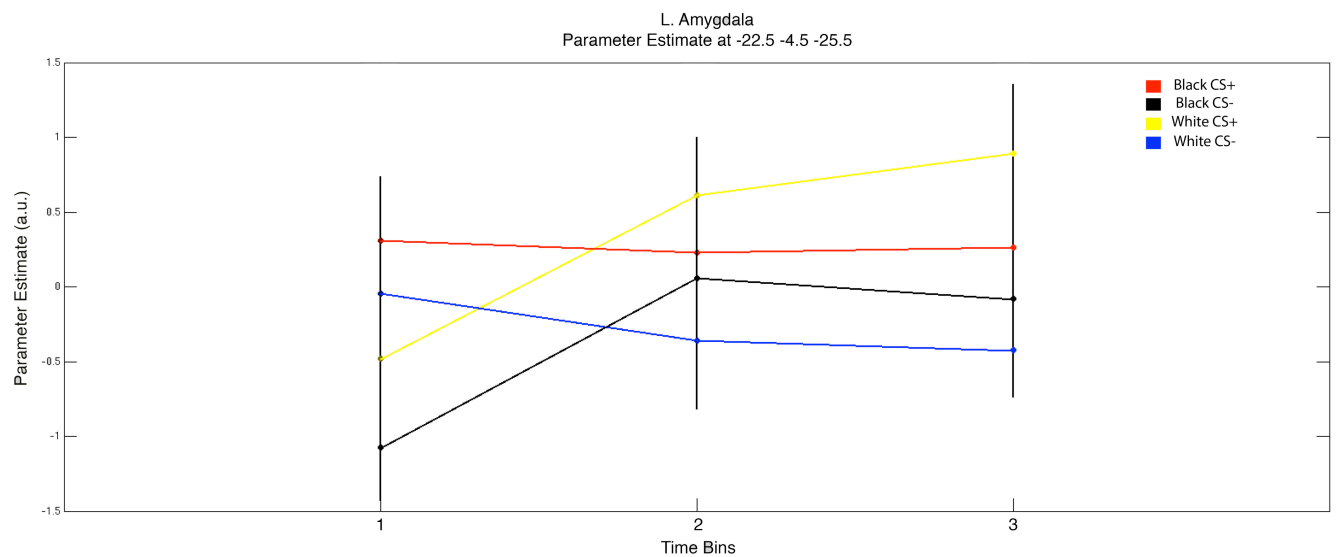
Figure S3. *SCR Plot over Trials: Acquisition.*

Figure S4. *SCR Plot over Trials: Recall.*

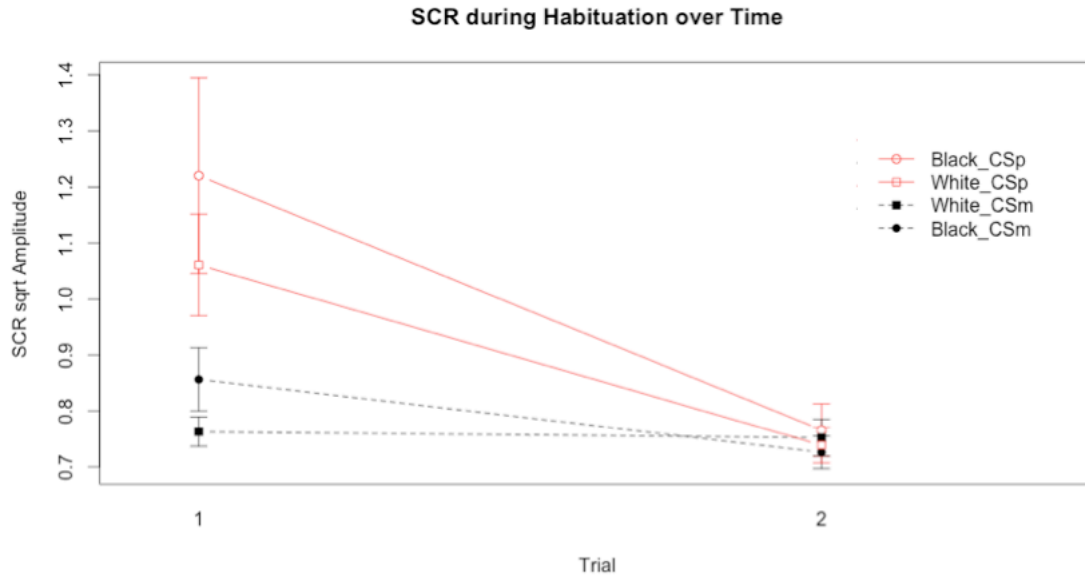
##### 2. Supplemental Table

Table S1. gPPI connectivity analysis

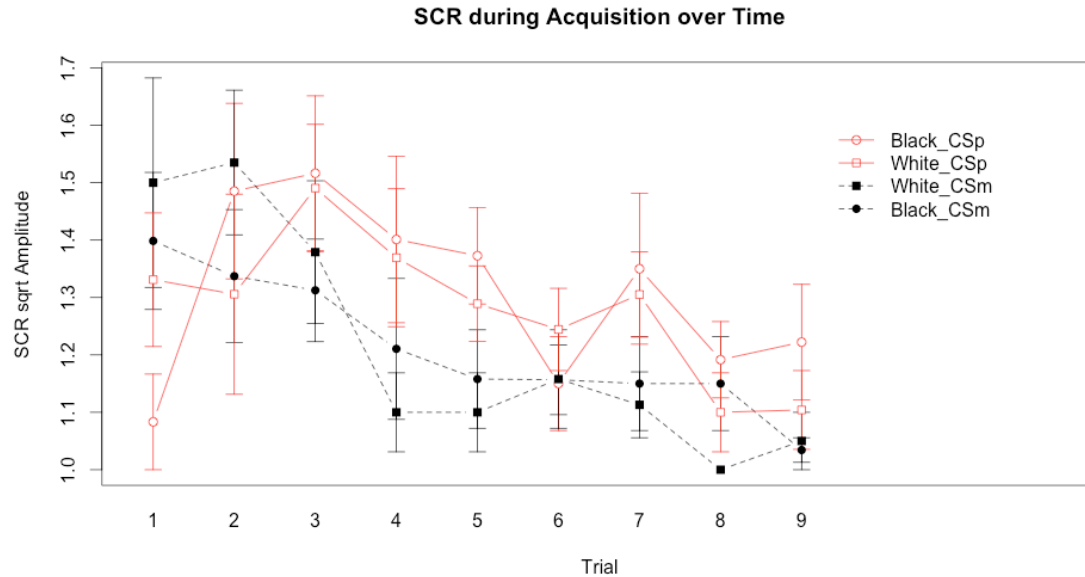
#### Supplemental Figures



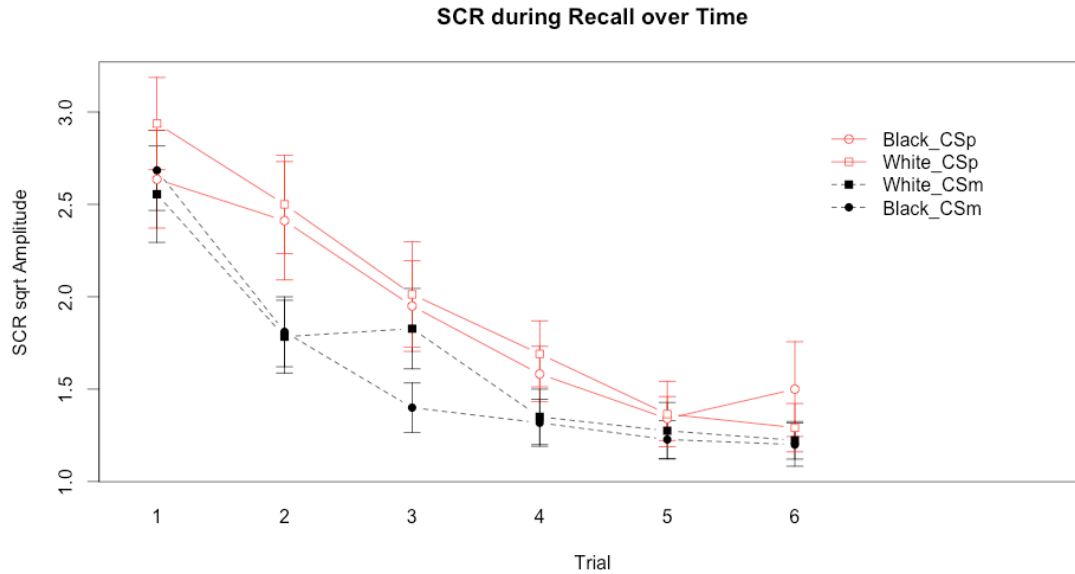
**Figure S1.** *RFX Plot: Overall activity split in three time bins based on trial numbers.* RFX Plot shows the contrast estimates plot in three time bins from the significant peak of activation in the left amygdala for the contrast (CR White > CR Black) during Acquisition stage. Time bin 1= trial 1-3, time bin 2= trial 4-6, time bin 3= trial 7-9.



**Figure S2.** *SCR plot over Trials: Habituation.* The amplitude of SCRs is shown in microsiemens. Fear elicited enhanced SCRs to CSs during Habituation on Trial 1 as compared to Trial 2. Error bars indicate standard deviation (SEM). There is a significant decrease in SCRs to CS regardless of race or future “to-be CS+” from Trial 1 to Trial 2 ( $F(1,19) = 27.70, p < .001$ ).



**Figure S3.** *SCR plot over Trials: Acquisition.* The amplitude of SCRs is shown in microsiemens for the SCRs to CSs during Acquisition across all 9 Trials. Error bars indicate standard deviation (SEM). A RM ANOVA with the factors CS (CS+, CS-), Race (Black, White), Trial (1-3, 4-6, 7-9) revealed a CS\*Race\*Trial interaction ( $F(2,38) = 4.97, p < .05$ ).



**Figure S4.** *SCR plot over Trials: Recall.* The amplitude of SCRs is shown in microsiemens. Fear elicited enhanced SCRs to CSs during Recall across all 6 Trials. Error bars indicate standard deviation (SEM). A RM ANOVA with the factors CS (CS+, CS-), Race (Black, White), Trial (1-2, 3-4, 5-6) revealed a significant effect of Trial ( $F(2,38) = 43.12, p < .001$ ).

**Table S1. gPPI connectivity analysis**

**EXPERIMENTAL STAGE**

*Analysis (Contrast)*

Anatomical Region	MNI x,y,z (mm)	peak <i>t</i>	peak <i>p</i> (FWE- corr)	K
<b>ACQUISITION</b>				
<i>(CR Black &gt; CR White)</i>				
Left Fusiform	-34 -12 -30	3.96	<.001	6
Left Thalamus	-12 -12 -5	3.94	<.001	7
Left precentral	-50 3 22	3.93	<.001	9
<i>(CR White &gt; CR Black)</i>				
Right ParaHippocampal	24 -42 -3	3.94	<.001	3
Left vmPFC	-12 42 1	3.91	<.001	13
Left Insula	-26 20 -11	3.75	0.001	1
Right Lingual	21 -75 1	3.7	0.001	4
Right middle temporal gyrus	51 -1 -17	3.69	0.001	1
Right Hippocampus	32 -42 1	3.67	0.001	5
<i>(Black &gt; White)</i>				
Left Fusiform	-34 -10 -27	4.81	<.001	38
Cerebelum_9_L	-12 -45 -35	4.07	<.001	
Left Thalamus	-21 -16 6	4.22	<.001	21

Left superior frontal medial	-12 60 21	3.94	<.001	13
<i>(White&gt;Black)</i>				
Right Hippocampus	27 -43 -2	4.97	<.001	178
Right Hippocampus	32 -39 4	4.68	<.001	
Right Insula	40 -12 -6	4.44	<.001	29
Right Thalamus	15 -6 -5	4.43	<.001	14
Right Lingual	22 -84 -5	4.04	<.001	6
Right Caudate	21 -24 22	3.89	<.001	10
Cerebelum_4_5_L	-6 -42 -8	3.67	0.001	2
Cerebelum_4_5_L	-4 -45 -6	3.63	0.001	1
<b>EXTINCTION</b>				
<i>(CR Black &gt; CR White)</i>				
Right Fusiform	34 -9 -39	5.39	0.05*	47
Right anterior cingulum	8 6 27	4.7	<.001	63
Left superior temporal gyrus	-36 -37 7	4.55	<.001	19
Right putamen	27 -3 16	4.5	<.001	29
Left inferior parietal	-45 -52 58	4.38	<.001	12
Left inferior temporal gyrus	-42 -10 -35	4.37	<.001	22
Right middle frontal	38 42 -2	4.2	<.001	19
Left anterior cingulum	-9 12 24	3.93	<.001	10
Right Thalamus	3 -15 -0	3.87	0.001	22
Right inferior parietal	39 -46 51	3.83	0.001	24
Right middle frontal	51 44 1	3.73	0.001	10
Right Thalamus	20 -15 9	3.61	0.001	1
<i>(CR White&gt; CR Black)</i>				
Right supplementary motor area	12 2 60	6.66	<.001	394
Left supplementary motor area	-4 8 64	5.21	<.001	
Left supplementary motor area	0 14 60	4.46	<.001	
Left middle frontal	-27 45 24	4.36	<.001	61
Right middle cingulum	9 3 39	4.2	<.001	17
Cerebelum_4_5_R	14 -48 -18	3.61	0.001	1
<i>(Black&gt;White)</i>				
Right middle frontal	54 33 22	5.69	<.001	75
Right inferior parietal	42 -49 51	4.32	<.001	86
Left frontal inferior triangularis	-44 36 -0	4.28	<.001	56
Left inferior orbitofrontal	-39 42 -5	3.87	0.001	
Right inferior orbitofrontal	57 36 -3	4.19	<.001	5
Right middle temporal pole	38 16 -36	4.13	<.001	14
Right Thalamus	4 -12 -0	4.01	<.001	27
Right frontal inferior triangularis	46 44 -2	3.87	0.001	23
Right frontal inferior triangularis	58 33 -0	3.61	0.001	1
<i>(White&gt;Black)</i>				
Right supplementary motor area	10 0 58	4.92	<.001	95
Left middle temporal gyrus	-48 -45 -6	3.65	0.001	1

\*p &lt; 0.05, after SVC