

Supplemental Information

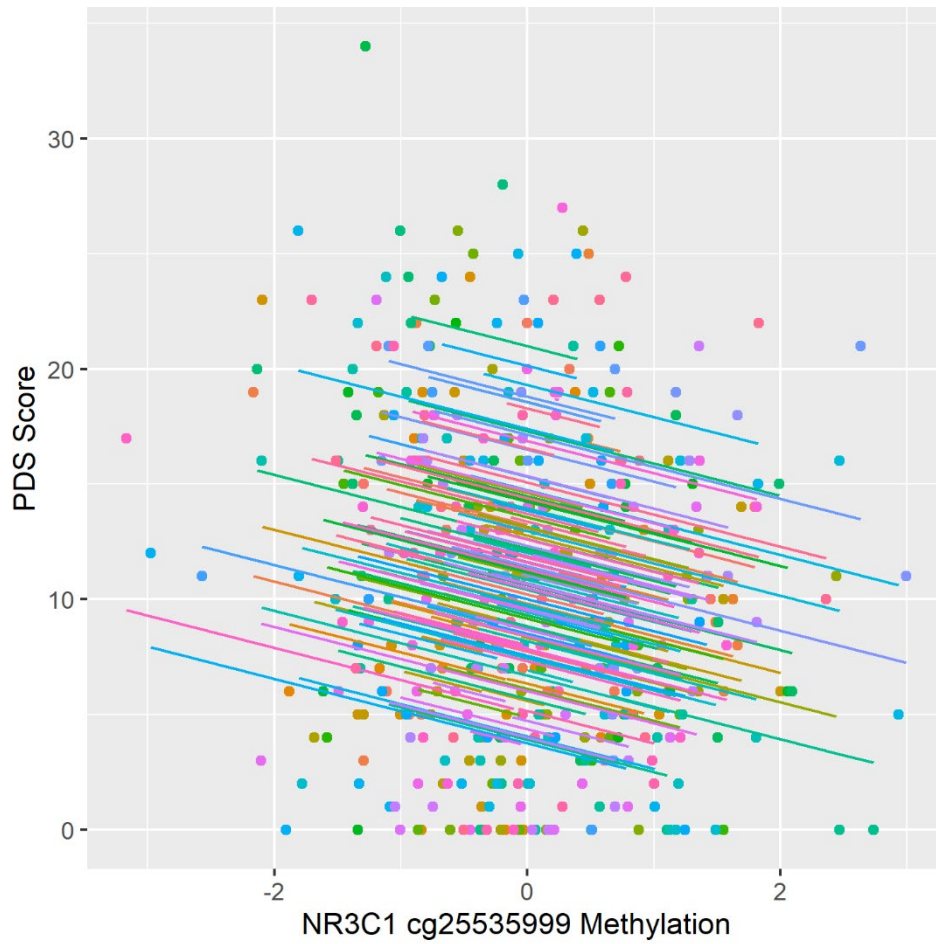
Epigenetics of traumatic stress: *NR3C1* methylation is associated with Posttraumatic Stress Disorder symptom changes in response to Narrative Exposure Therapy

Supplemental Table 1: Results of the repeated measurement correlation between *NR3C1* methylation and PTSD symptoms over the three points of measurement

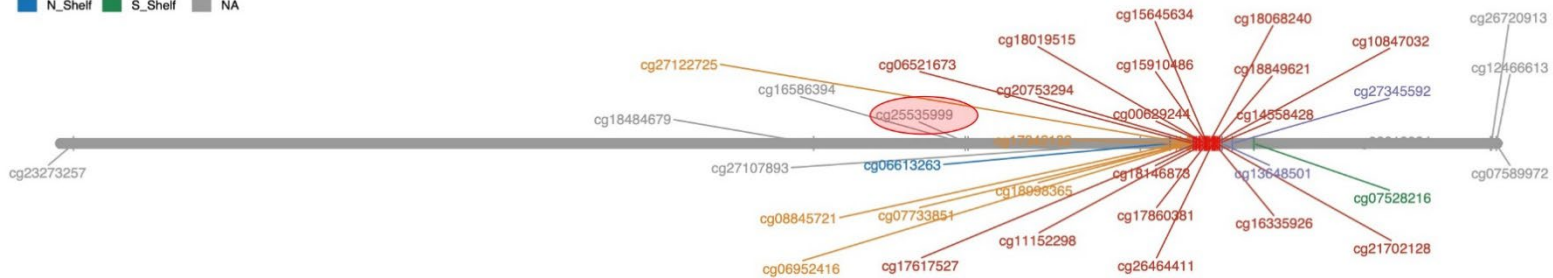
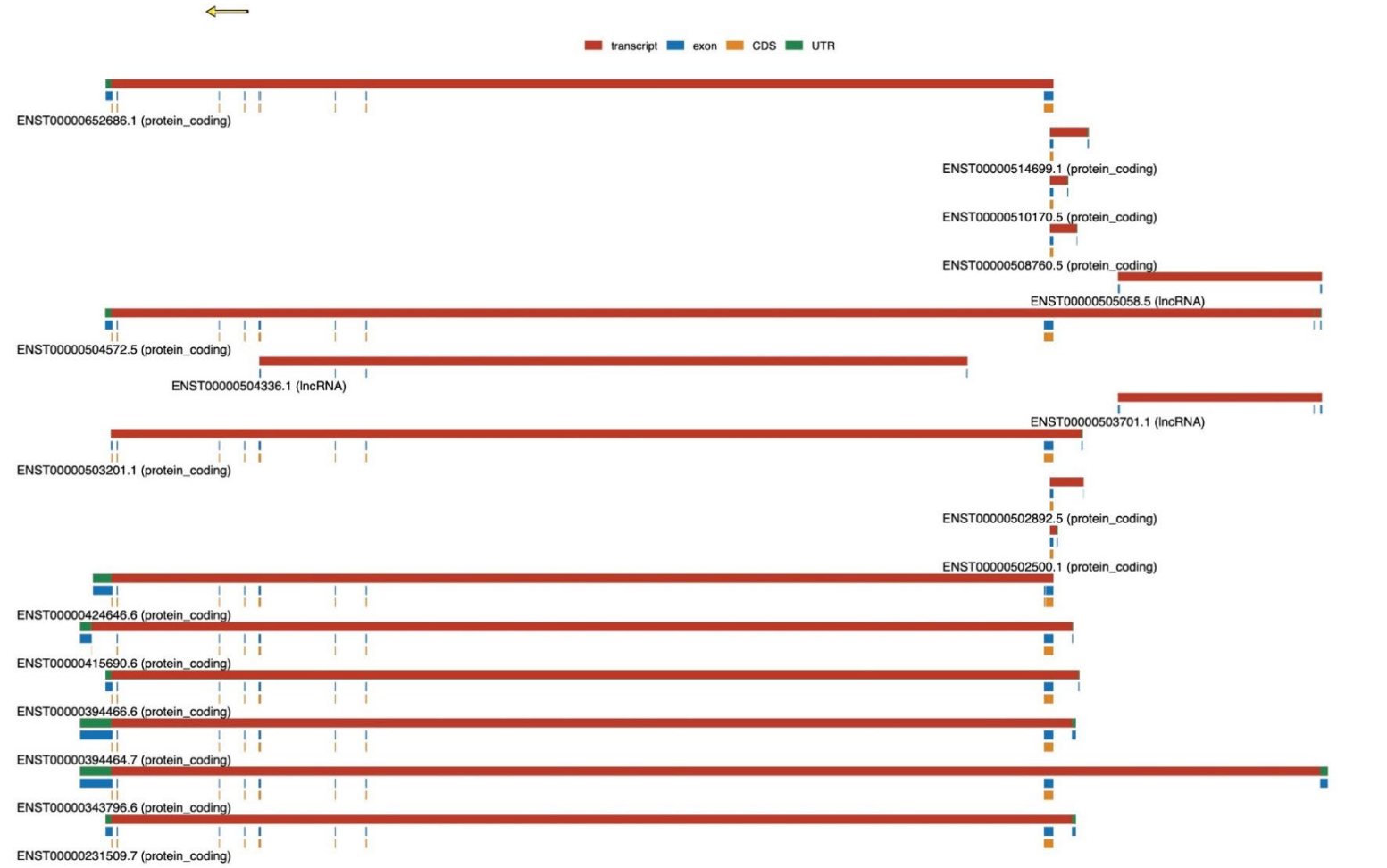
CpG site	DF	rmcorr	p	FDR
cg25535999	299	-0.195	0.00066	0.025
cg19135245	299	0.13	0.02391	0.454
cg19820298	297	0.11	0.05743	0.715
cg16219186	299	-0.095	0.09955	0.715
cg24026230	299	-0.091	0.11643	0.715
cg03906910	299	-0.088	0.12709	0.715
cg19645279	299	-0.087	0.13164	0.715
cg20753294	299	-0.072	0.21223	0.945
cg18998365	299	-0.07	0.22385	0.945
cg18019515	299	0.066	0.25266	0.946
cg13764763	299	0.063	0.27381	0.946
cg15910486	299	0.056	0.33508	0.995
cg26464411	299	0.047	0.41702	0.995
cg00629244	299	0.047	0.41777	0.995
cg19176661	299	-0.042	0.47231	0.995
cg12466613	299	-0.04	0.48884	0.995
cg05483455	299	0.037	0.52043	0.995
cg15115787	299	0.037	0.52292	0.995
cg20728768	299	-0.034	0.55961	0.995
cg08818984	299	-0.031	0.5884	0.995
cg03746860	299	-0.031	0.58941	0.995
cg07589972	299	0.027	0.63937	0.995
cg17342132	299	-0.026	0.65512	0.995
cg23776787	299	0.022	0.7043	0.995
cg08845721	299	0.021	0.71542	0.995
cg12969488	299	-0.015	0.79622	0.995
cg24052866	299	-0.014	0.80583	0.995
cg12888360	299	-0.014	0.80962	0.995
cg18718518	299	0.011	0.84796	0.995
cg00294552	298	0.01	0.8689	0.995
cg07733851	299	0.008	0.8956	0.995
cg17860381	299	-0.007	0.90933	0.995
cg08423118	299	-0.005	0.93106	0.995
cg23430507	299	0.003	0.96527	0.995
cg22233604	299	0.001	0.98155	0.995
cg08695103	299	0.001	0.98219	0.995
cg03857453	299	-0.001	0.99108	0.995
cg01967637	299	0	0.99473	0.995

Notes: DF, Degrees of Freedom; rmcorr, Repeated Measurement Correlation; p, p-value; FDR, FDR-corrected p-value

Supplemental Figure 1: Scatterplot of Repeated Measurement Correlation (rmcorr) between PTSD symptom severity (PDS score) and methylation at *NR3C1* cg25535999 for each individual included in the treatment study. The three points of measurement for each individual are visualized in the same color, along with individual regression lines (assuming a random intercept and a fixed slope). PDS, Posttraumatic Diagnostic Scale.



Supplemental Figure 2: The figure shows detailed chromosomal distribution of the *NR3C1* gene region in the SMART genome browser. The upper panel depicts the known Ensembl transcripts from the *NR3C1* gene locus, with transcript, exon, CDS and UTR regions marked red, blue, orange and green color, respectively. The yellow arrow marks the direction of transcription. The lower panel depicts the *NR3C1* gene locus with the locations of the Infinium CpG probes. DNA methylation at the encircled CpG site cg25535999 was significantly associated with PTSD symptoms over time, after accounting for multiple comparisons. CpG sites at density regions Island, N-shore, S-shore, N-shelf, S-shelf and NA are marked in red, orange, violet, blue, green and grey respectively.



Supplemental Figure 3: Correlation between *NR3C1* cg25535999 methylation and *NR3C1* expression across different TCGA datasets.

