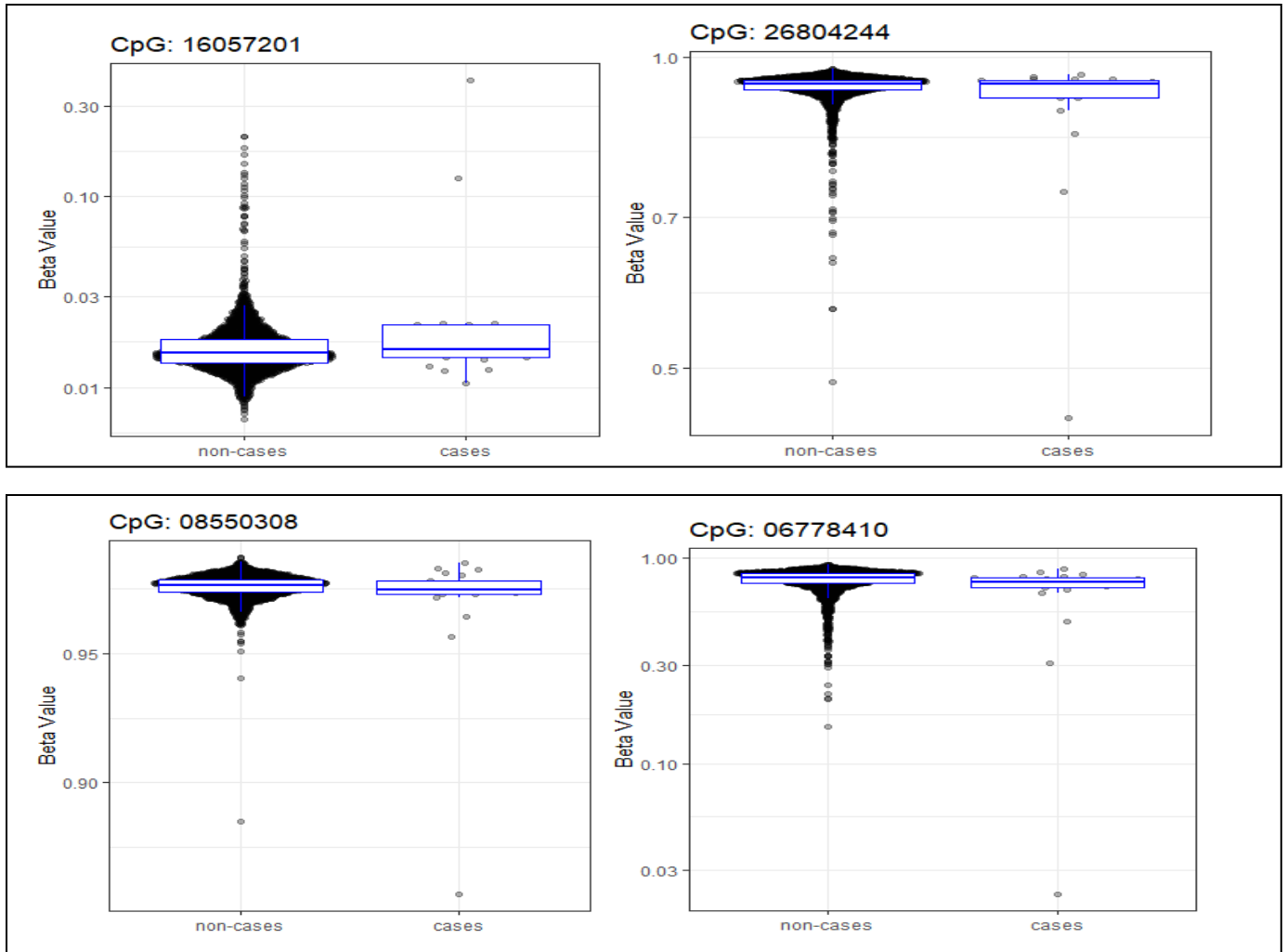
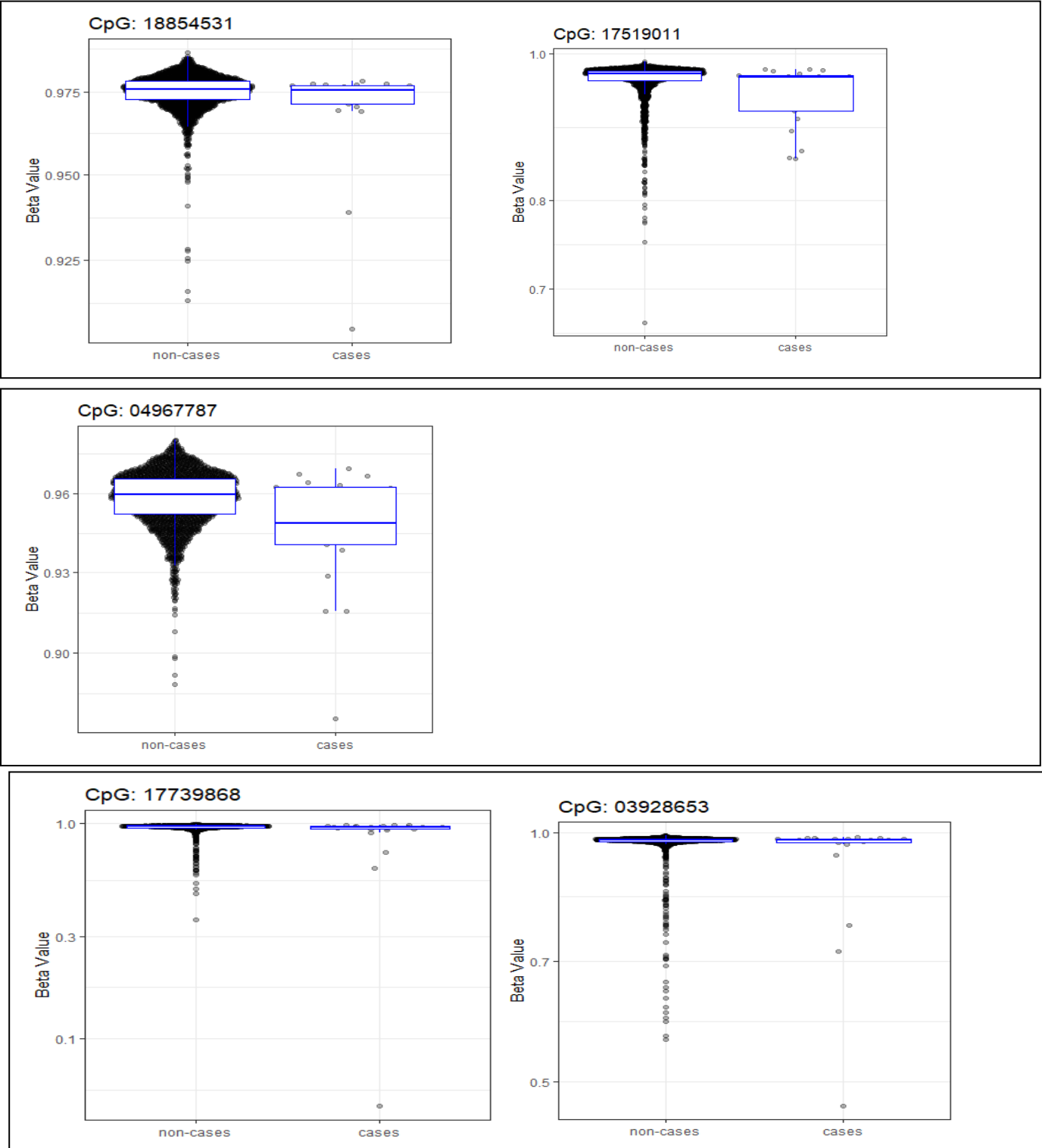


Supplemental Figures

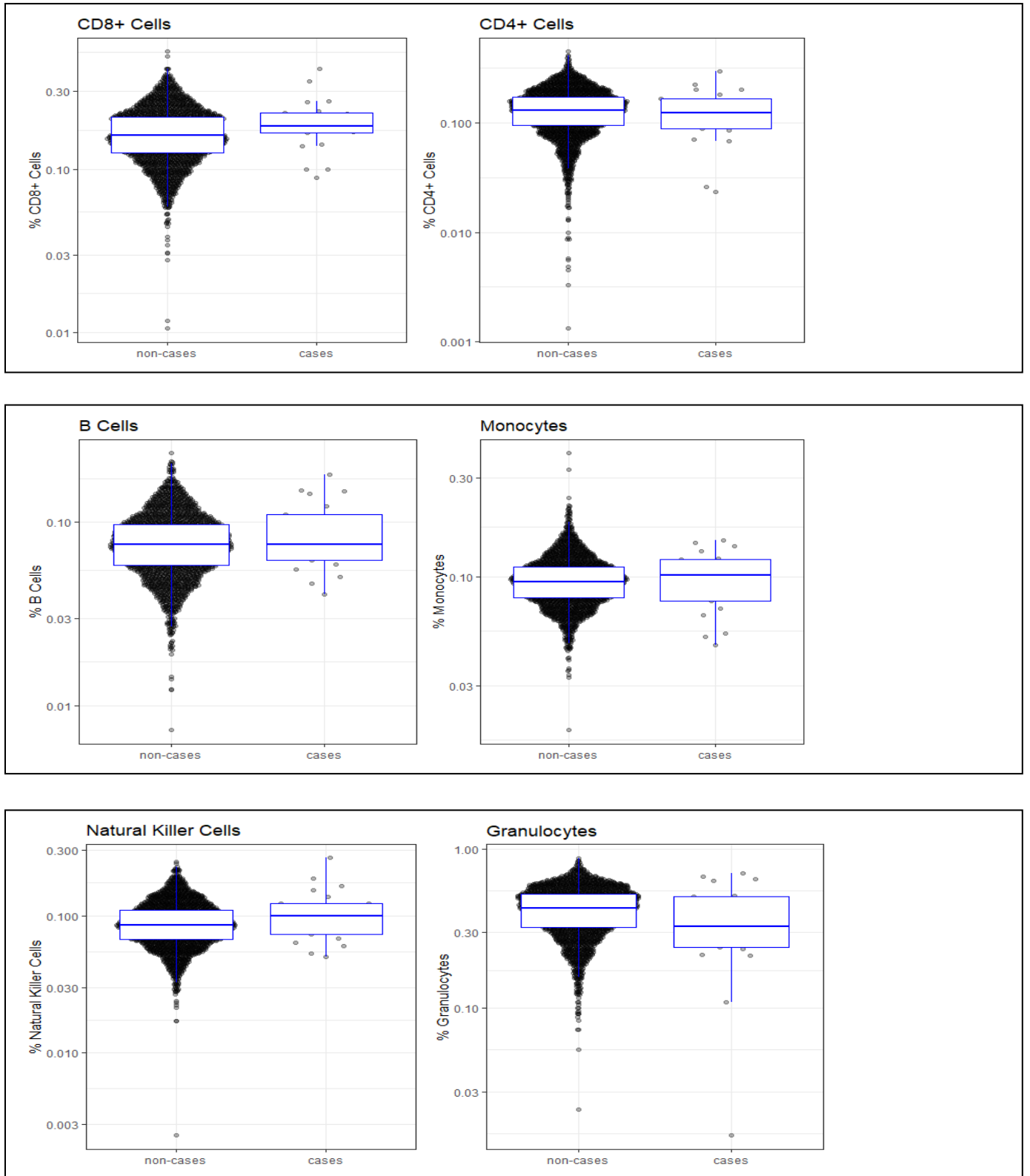
Supplemental Figure 1: The Distributions of 9 CpG sites by Liver Cancer Status, in the Strong Heart Study





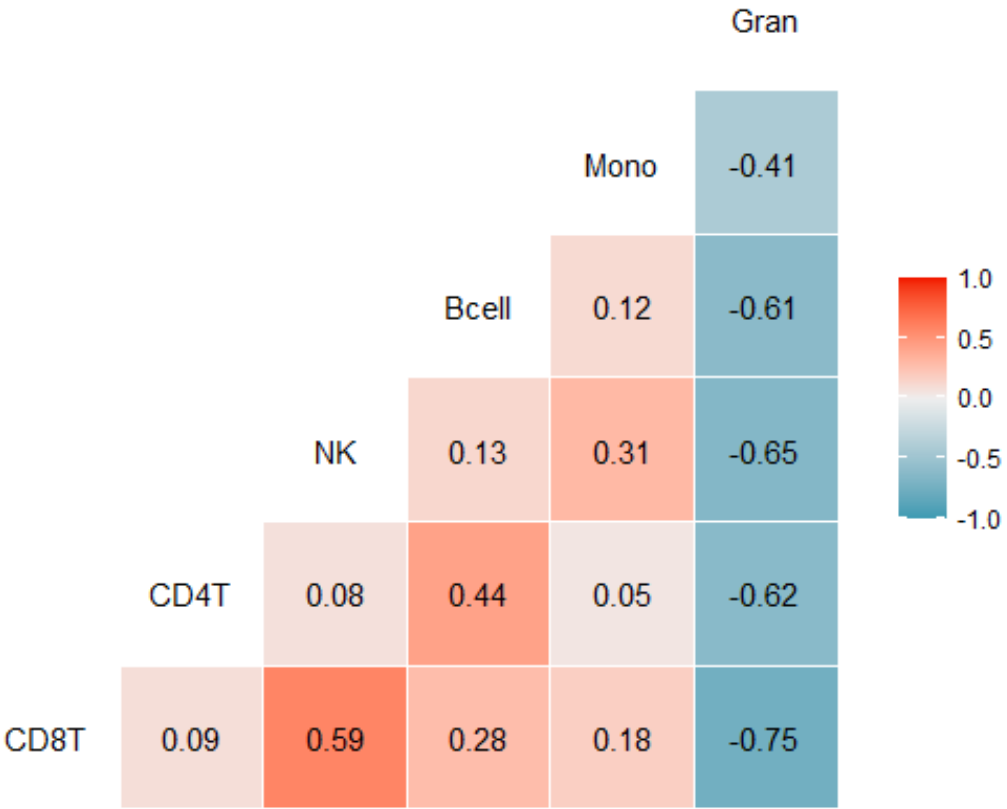
Supplemental Figure 1 Legend: Box plots compare the spread of percent methylation of EWAS-identified significant CpG sites by liver cancer status.

Supplemental Figure 2: The Distributions of Immune Cell Proportions by Liver Cancer Status, in the Strong Heart Study



Supplemental Figure 2 Legend: Box plots compare the proportion of immune cell subtype by liver cancer status. The proportions were ascertained by the Houseman computational method.

Supplemental Figure 3: Spearman Correlation of Immune Cell Subtypes



Supplemental Figure 3 Legend: The spearman correlation assesses the strength and direction of the monotonic relationships between all combinations of immune cell type included in this study.

Supplemental Table 1: The Distribution of log Fold Change of 9 CpG Site by Liver Cancer Status

CpG Site	logFC	P-value	Chromosome	Gene
cg16057201	1.13	5.29E-11	4	MRFAP1
cg26804244	-0.70	9.14E-09	2	
cg08550308	-0.44	4.61E-08	1	
cg06778410	-0.86	1.18E-07	3	
cg17739868	-1.12	3.90E-07	6	
cg03928653	-0.97	4.20E-07	21	
cg18854531	-0.39	4.86E-07	2	
cg17519011	-1.08	6.92E-07	22	A4GALT
cg04967787	-0.49	7.32E-07	10	PPRC1

Supplemental Table 2: Immune Cell Subtype Counts by Liver Cancer Status

Immune Cell Subtype, Median (IQR)	Liver Cancer Status		P-VALUE
	Cases N = 21	Non-Cases N = 2303	
CD8+	0.185 (0.055)	0.162 (0.084)	0.06
CD4+	0.123 (0.079)	0.131 (0.079)	0.70
Natural Killer	0.099 (0.050)	0.086 (0.043)	0.03
B-lymphocytes	0.076 (0.048)	0.076 (0.039)	0.11
Monocytes	0.102 (0.045)	0.094 (0.032)	0.80
Granulocytes	0.326 (0.259)	0.424 (0.200)	0.10

P values were calculated from ANOVA test