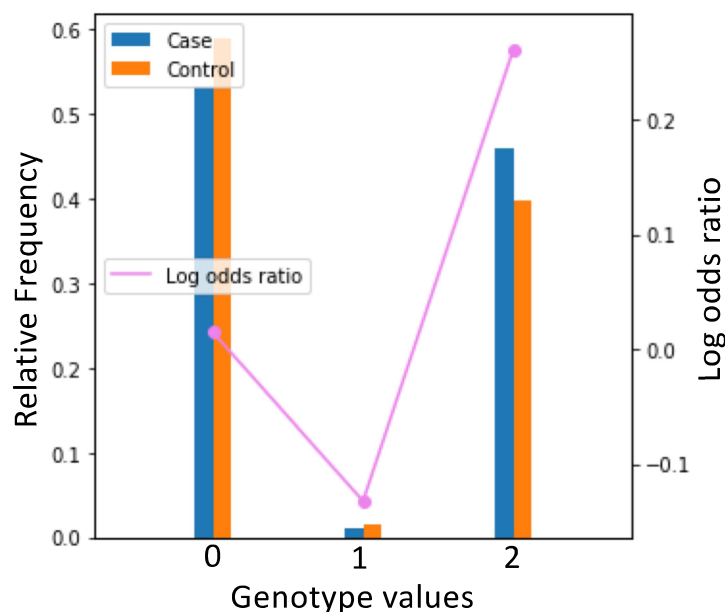


(B)

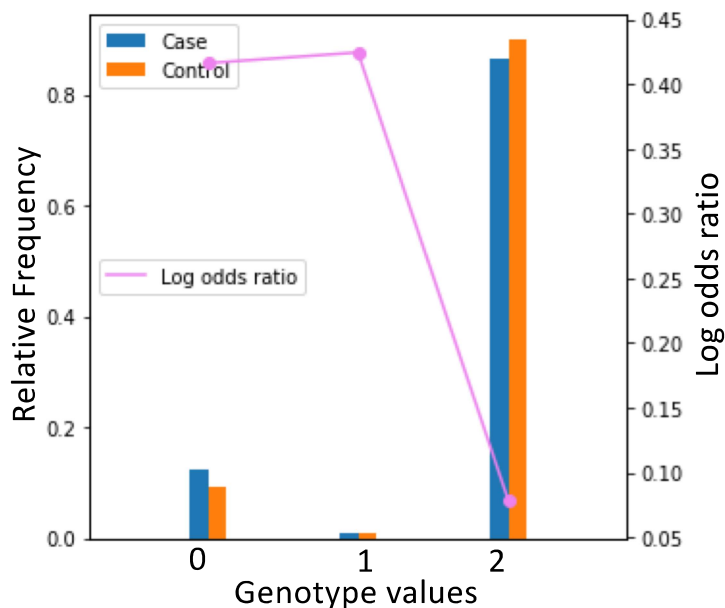
SNP: chr8_89514784_A_G

LIME (10^{-4})	DeepLift (10^{-2})	p-value
27.0	3.7	2.5E-05



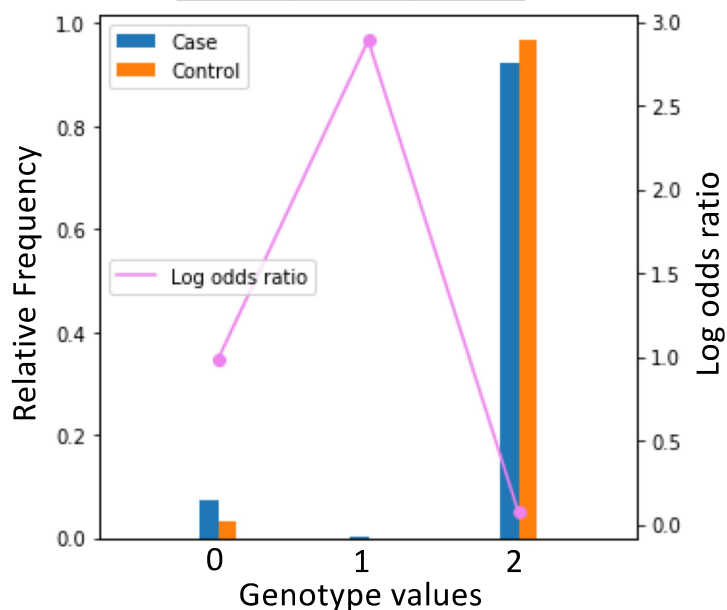
SNP: corect_rs139337779

LIME (10^{-4})	DeepLift (10^{-2})	p-value
4.5	-3.3	6.5E-04



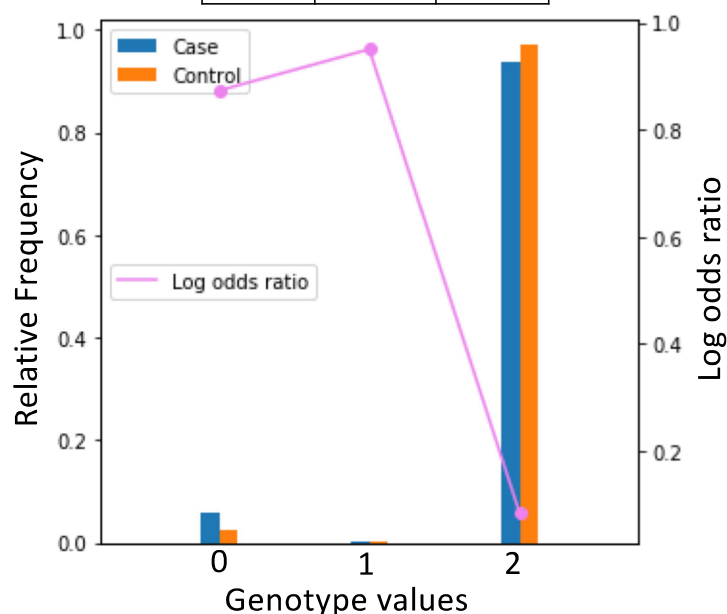
SNP: rs11642757

LIME (10^{-4})	DeepLift (10^{-2})	p-value
5.3	-2.9	2.0E-06



SNP: chr9_16917672_G_T

LIME (10^{-4})	DeepLift (10^{-2})	p-value
4.5	-2.5	7.6E-05



Supplementary Figure 3: Genotype-phenotype relationships for salient SNPs used in the DNN model. (A) Four salient SNPs with linear relationships as shown by the pink lines and the significant association p-values. (B) Four salient SNPs with non-linear relationships as shown by the pink lines and the insignificant association p-values. The DNN model was able to use SNPs with non-linear relationships as salient features for prediction.