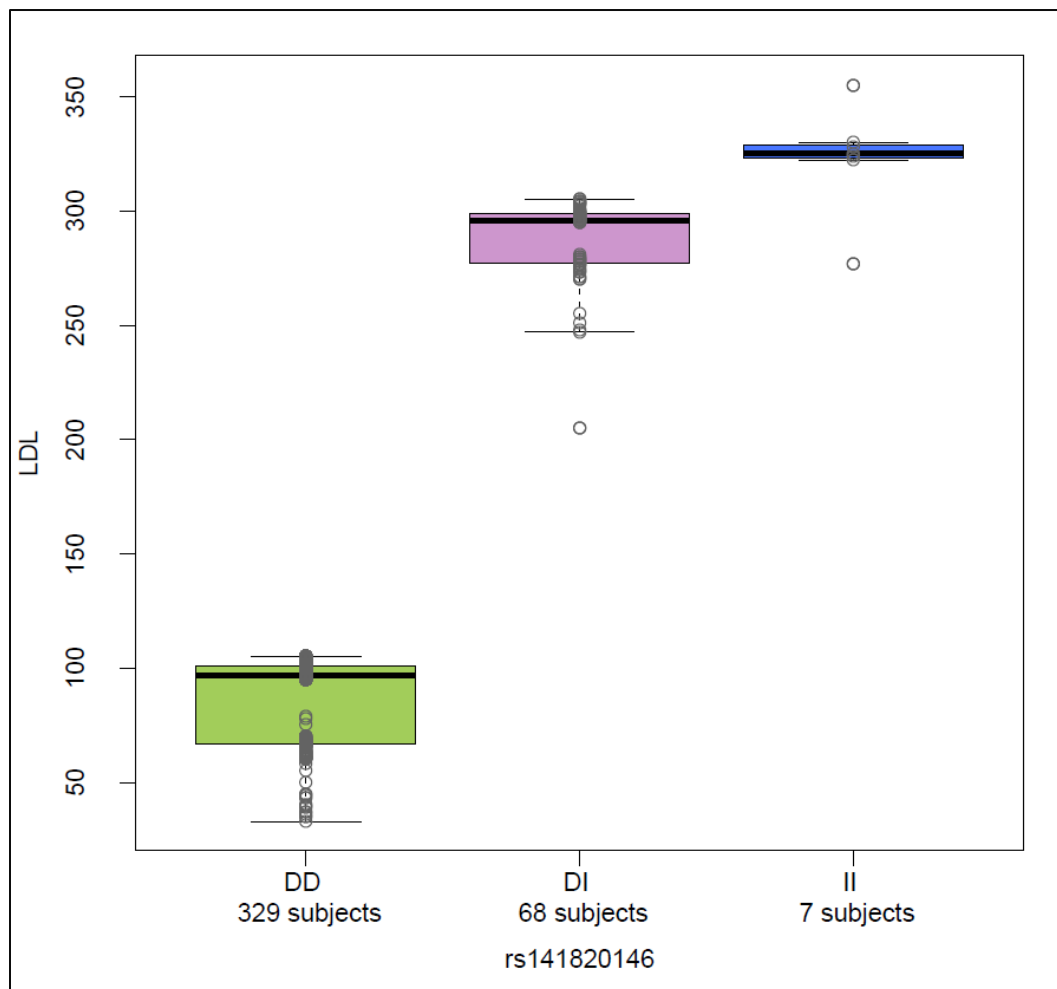


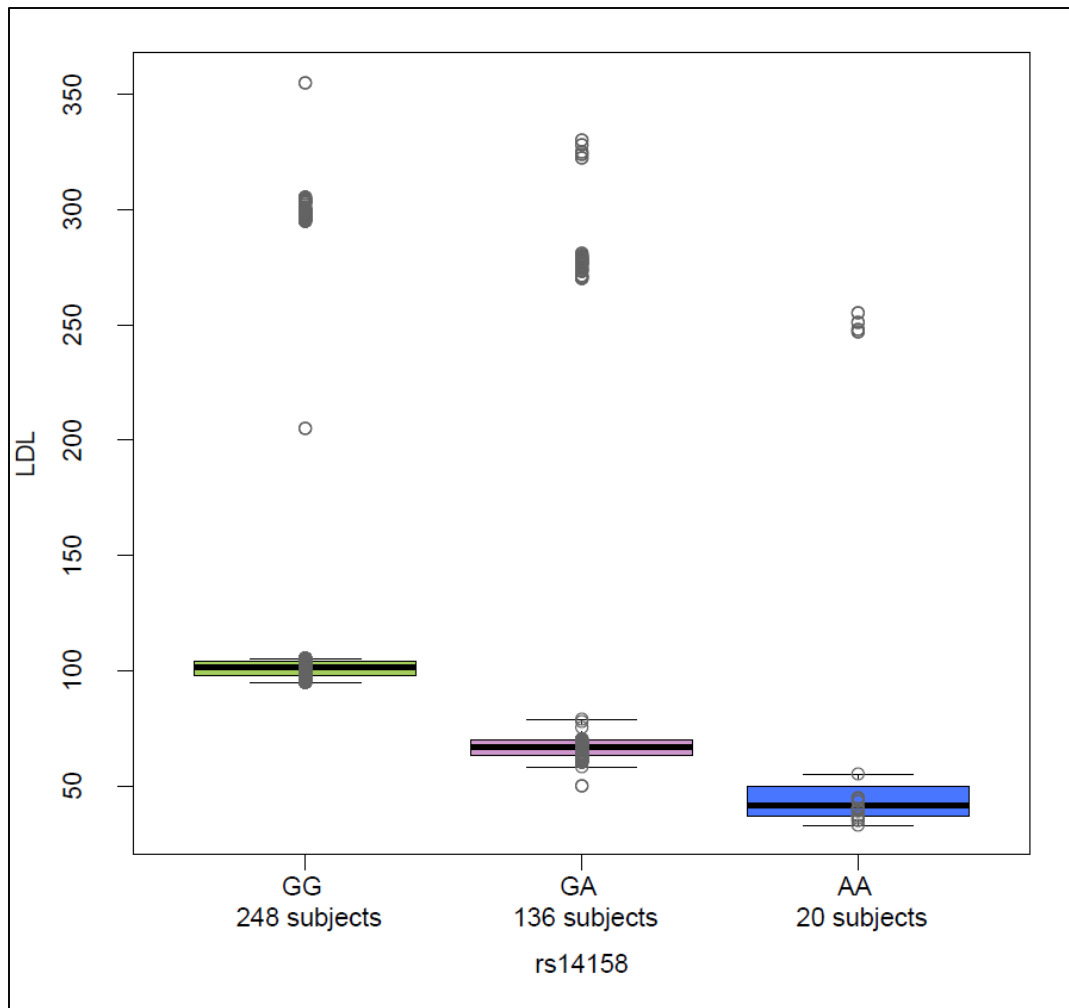
Enter the line number of the desired variant to select as the reference variant (columns are SNP, p-value, beta):

1	rs141820146	1.498e-198	175.2
2	rs142444132	1.498e-198	175.2
3	rs17248769	1.498e-198	175.2
4	rs17248776	1.498e-198	175.2
5	rs17248783	1.498e-198	175.2
6	rs2228671	1.498e-198	175.2
7	rs73015033	1.498e-198	175.2
8	rs73015034	1.498e-198	175.2
9	rs74857287	1.498e-198	175.2
10	rs117423069	2.333e-187	173.2
11	rs17242395	2.333e-187	173.2

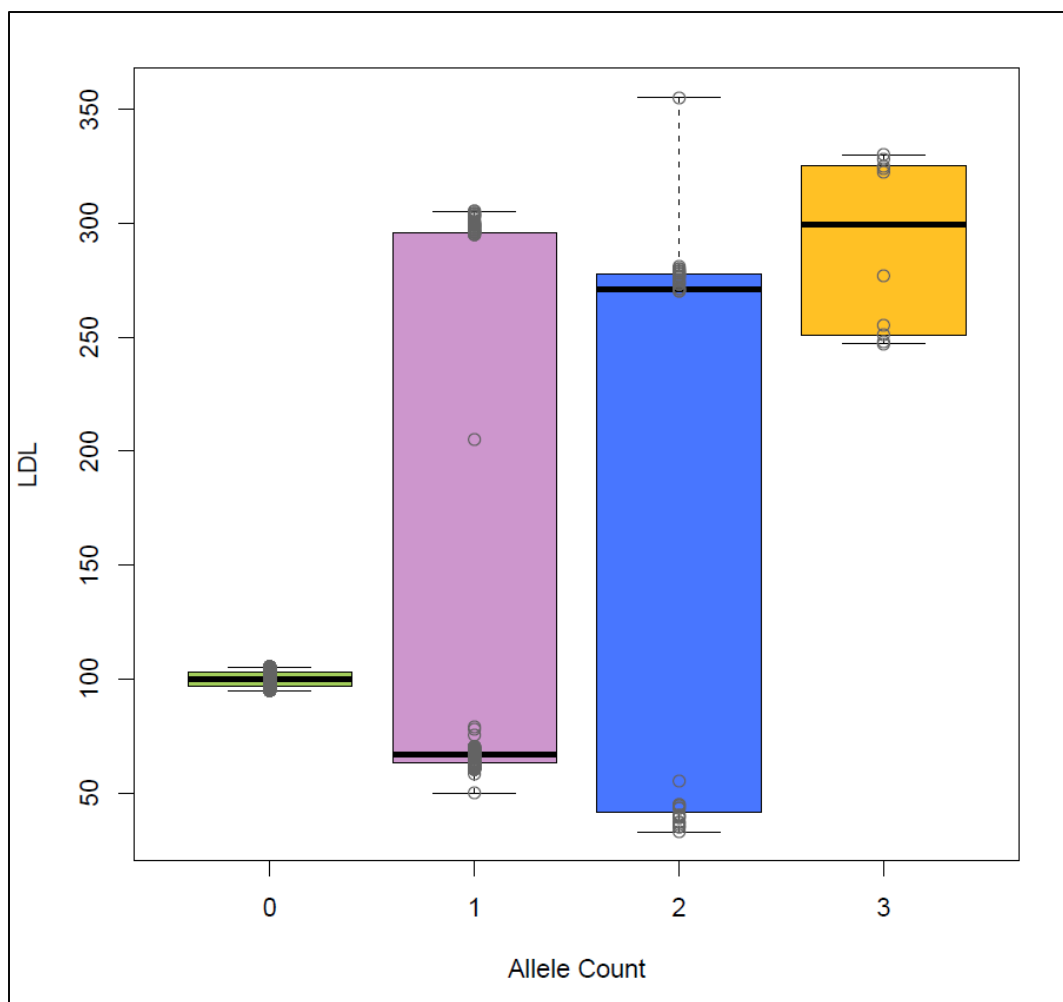
Supplementary Figure 1. Sample of output when choosing to manually select reference variant.



Supplementary Figure 2. Boxplot of LDL levels based on genotype of top variant from the first iteration of the Conditional Analysis Cakewalk on simulated data.



Supplementary Figure 3. Boxplot of LDL levels based on genotype of top variant from second iteration of Conditional Analysis Cakewalk on simulated data.



Supplementary Figure 4. Boxplot of LDL levels based on allele count of top variants from all iterations of the Conditional Analysis Cakewalk on simulated data.

SNPNAME	CHR:POS	PVALUE	BETA	LOCUSZOOM	BOXPLOT
rs141820146	chr19:11209757	1.50E-198	175.2	LZ_LDL.chr19:11209757.pdf	LDL.test1.pdf
rs14158	chr19:11242044	1.90E-67	-32.9	LZ_LDL.chr19:11242044.pdf	LDL.test2.pdf
Statistics for final boxplot					
Allele_count	Subject_count				
0	205				
1	150				
2	39				
3	10				

Supplementary Figure 5. Contents of output file, TOP_SNPS.csv, containing data from each iteration of the Conditional Analysis Cakewalk on simulated data and statistics for the final boxplot.