**Data lab 3 - Meta-analysis**

Name:

Date:

Question 1: Check the output log, how many markers did the meta-analysis complete? Which is the marker with the smallest p-value?

Question 2: Quickly inspect the loaded result, how many number of rows and columns are there? Does the number of rows match the number of markers scanned in the meta-analysis? What does the number of SNPs imply about the reference panel that was used for imputation?

Question 3: Which column should be look at for the p-values?

Question 4: Upload your QQ-plot to the report. What conclusions does the QQ plot tell?

Question 5: Upload your Manhattan plot to the report.

Question 6: Use LocusZoom to make the regional plot for the top SNP and upload it to the report.

Question 7: Do you see any difference in the significance? What would you conclude for the CETP gene and its association with HDL levels?

Extra exercise: Have a quick look at the regional plot: do the combined results agree with the lab's results regarding which gene is likely causal?