

GWAS: Name _____

1. Formatting:

all margins 2.5cm

informative title

12 pt size

name on all pages

no raw R code or output

all pages numbered

max **10** pages

no blurry plots (**NOT png**)

2. Introduction/Background:

brief statement of scientific question

all variables defined

3. PCA:

explain relation between PCs and population stratification

plot pc2 (y-axis) vs pc1 (x-axis)

4. Pre-processing / QC steps:

SNP QC: criteria and reasons

sample QC: criteria and reasons

Hardy-Weinberg equilibrium: what it means and how it relates to quality

Overall QC explanation

5. Association / post-association analysis:

Describe association analysis in words and mathematically

Manhattan plot

lambda analysis (including **SQUARE** QQ-normal plots)

LD heatmap (optional – does NOT count); measure of LD

6. Write out final estimated model **mathematically** (for a given SNP)

hat on response variable

MUST RELATE TO SNP

7. Plots:

label size (not too small)

captions

placement

NOT BLURRY

8. Conclusions

recap analysis

state main findings

9. Overall presentation (clarity of explanations, appropriate citations / references) :

poor

satisfactory

good

excellent

10. Other comments:
