**7 questions from analytics**

The concept of genetic markers

* QC criteria

Heterogeneity between individuals

* At different levels – trait – what is it?
* Trait heterogeneity?
* Genotypic heterogeneity? 🡪 goes to population stratification

LD

* What is LD and
* why is it important in the context of GWAs
* Confounding

Population stratification

* what is it
* what are ways to deal with population stratification

GWA testing

* regression concepts – assumptions
* chi-sq test : when to use? Score test? Significance via permutations? Multiple testing ?

Relevant software for GWAS (which ones do not target finding association signals)

* for meta-analysis (replication and validation), for rare variants
* difference between replication and validation

**7 questions from genetics**

* what are genetic markers
* sequencing aspects
* biological interactions
* …

**6 questions about software seen in practical classes and interpreting output from them**