

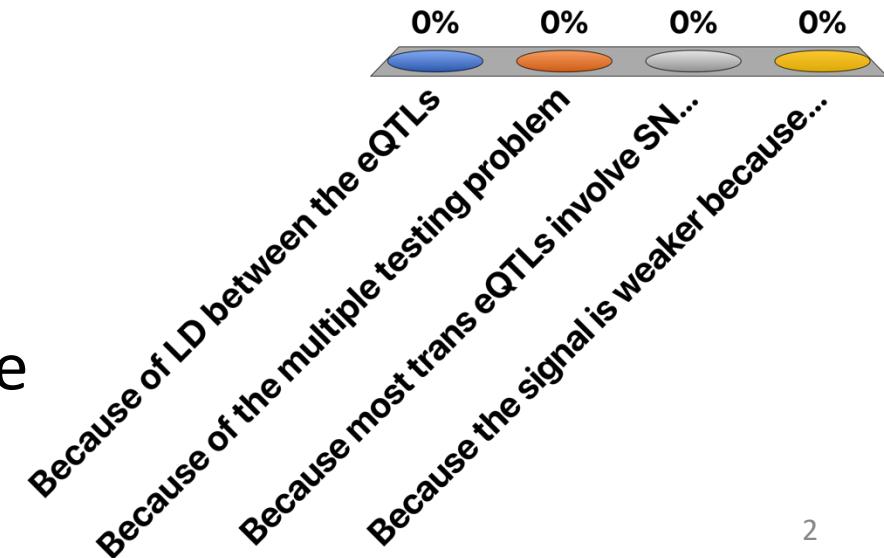
Interactive questions

Lecture 4: Regulatory variation & Precision medicine

Need many more samples / individuals

Q6 to map *trans* eQTLs, why?

- A. Because of LD between the eQTLs
- B. Because of the multiple testing problem
- C. Because most *trans* eQTLs involve SNPs with a low MAF
- D. Because the signal is weaker because these variants modulate gene expression at a far distance



What is chromotrypsis (cancer context)?

- A. A mutation that leads to “trypsis”, i.e. fragmentation of a cell
- B. **Fragmentation and re-ligation of chromosomes**
- C. Fragmentation of a tumor into individual cells resulting in cell spread and metastasis
- D. Chromatin state fragmentation such that all genes on a particular chromosome become activated

