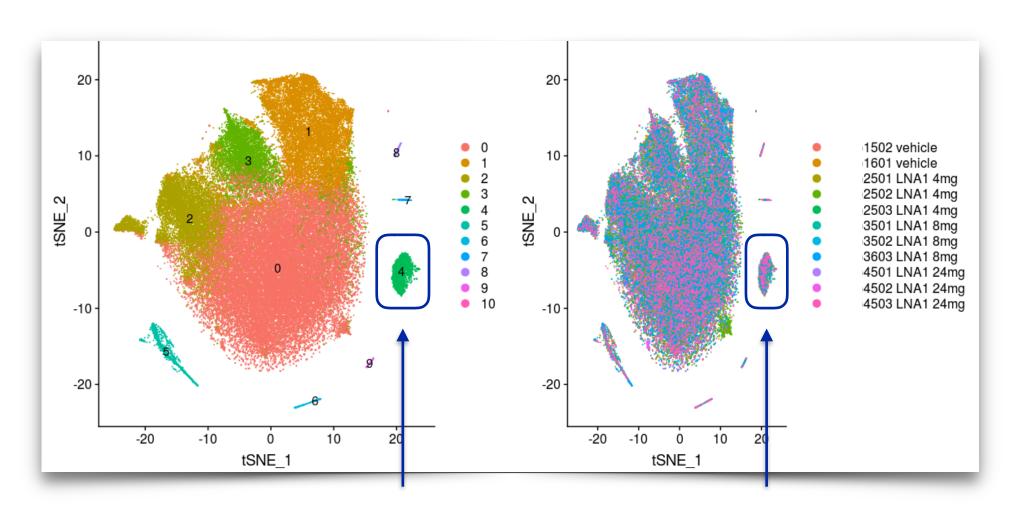


Two types of differential expression: marker gene DE, <u>differential state analysis</u>

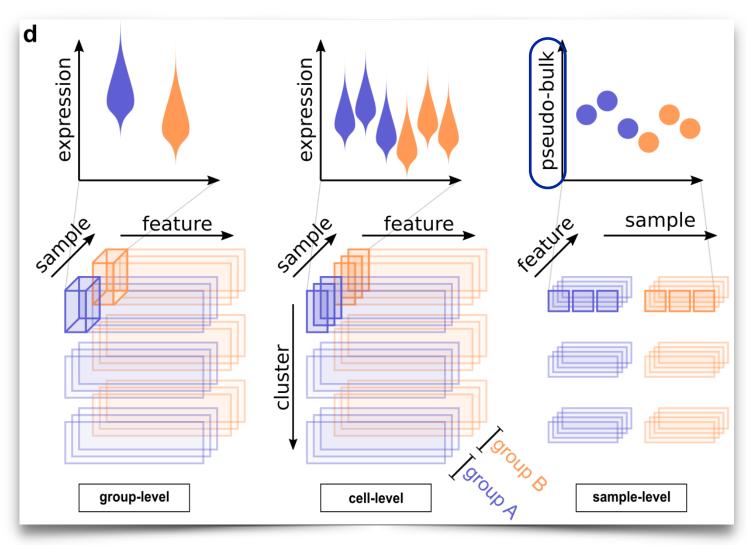


repeat for each population ..

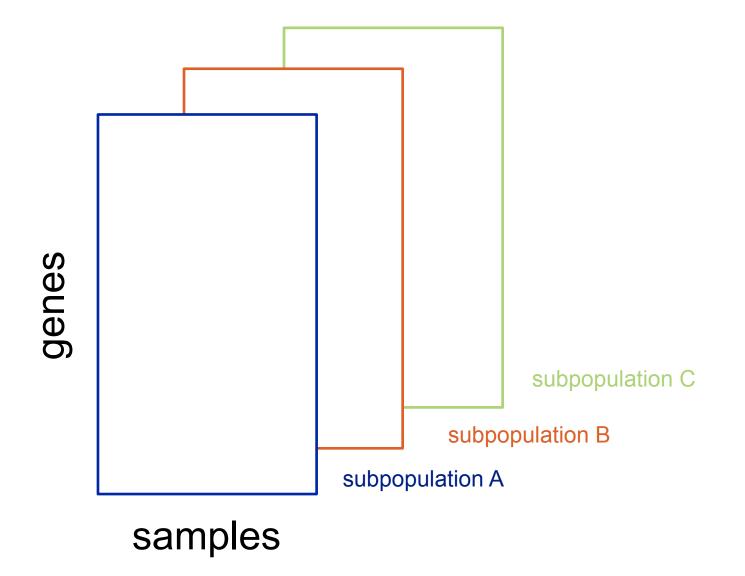
Focus: Marker gene DE Focus: cross-sample DE

After "Cell Type Prediction" / "Clustering", various ways to view the inference problem

Multi-sample Multi-condition Multi-population



Results suggesting reducing the problem to a set of bulk RNA-seq DE analyses is fast an powerful



- At least 1 modelling question remains: should you model each population on its own, or all populations at once?
- Currently done as the former; in the latter, one could model a main effect (common response) in addition to interactions (subpopulation specific deviations)