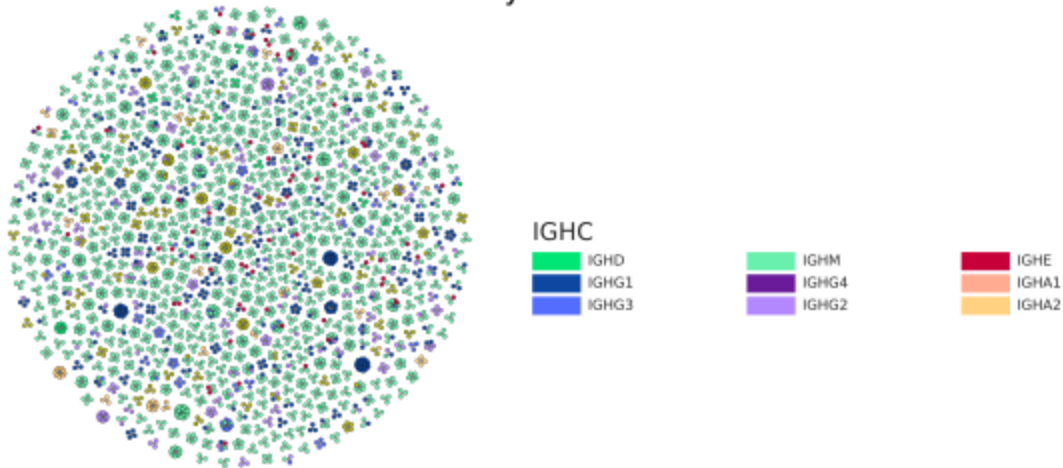
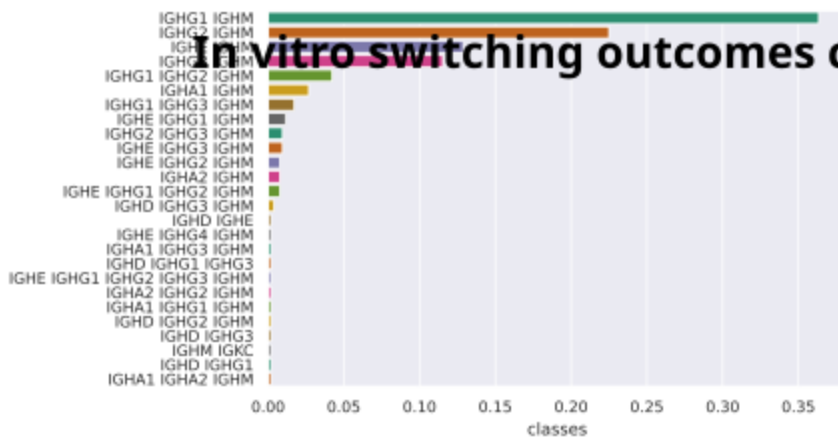


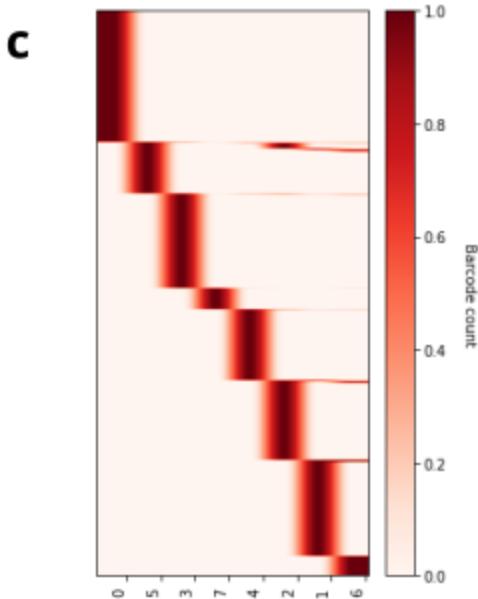
a *this is what the data look like clonal families etc.*



b *in vitro switching outcomes consistent with direct to E switching (this is apparently of interest to people such as felix)*



this figure is not yet done, want to pull felix's old repertoire data and show them side by side (with some comparison metric such as spearman and pearson)



certain types of clones as defined by gene expression are persistent across the time course (this figure does not yet show this finding but it's a visualization used to gain the insight, it's actually quite interesting the non-switched memory B cells from the input appear far more likely to be detected at later time points than any other cell type)

d

histogram of proportions of clones in a type of cluster / cell state, I've shown these before just don't have the publication quality figure yet