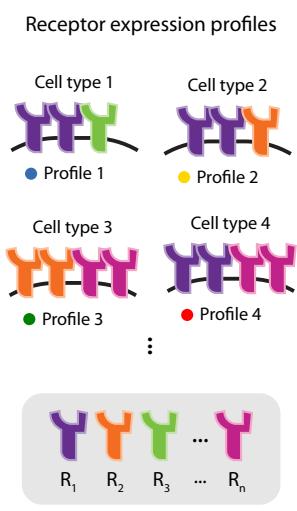
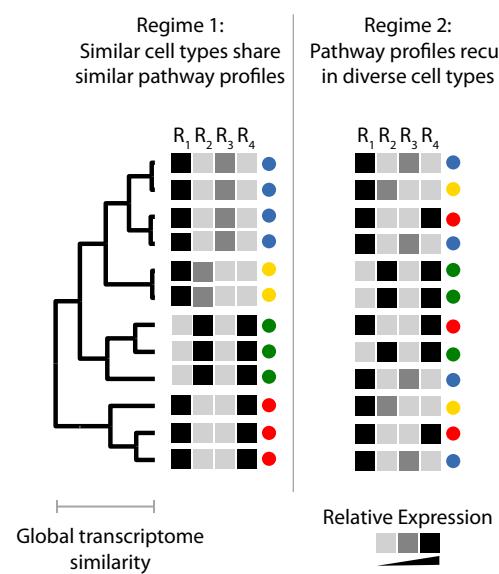


Figure 1: Pathway expression profiles could recur across diverse cell types

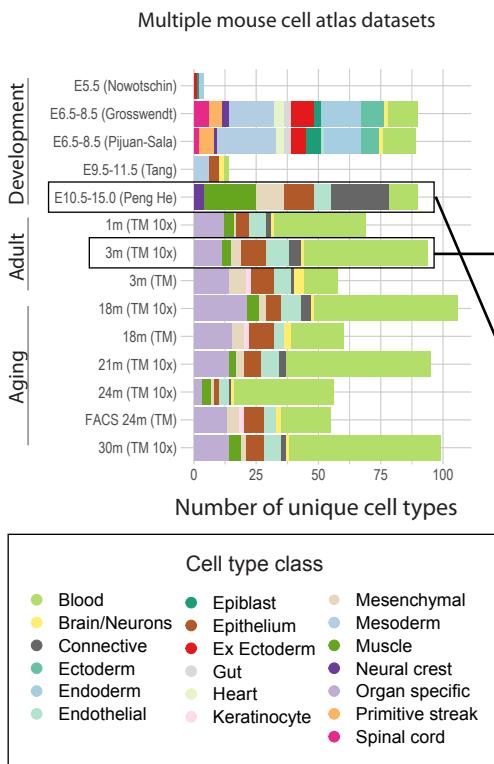
A



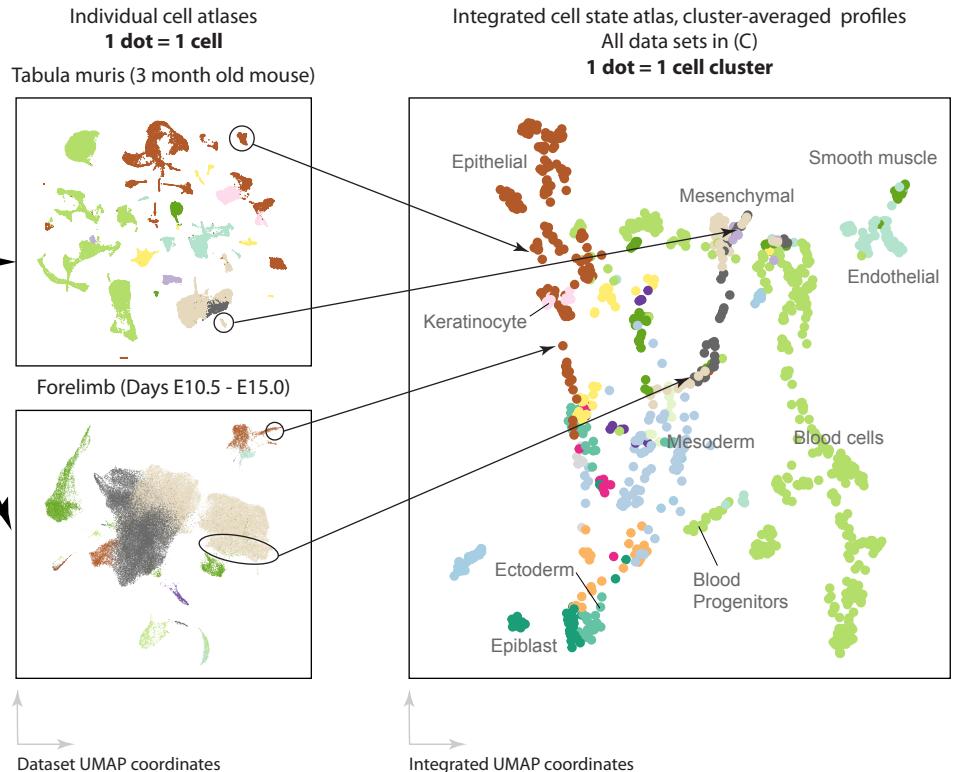
B



C



D



Add Alejandro's analysis that cell types of the same class are more similar to each other than to other cell types --> matrix + dendrogram
- what genes should this be based on?

should we add other pathways, or only our favorites

fraction of cell types

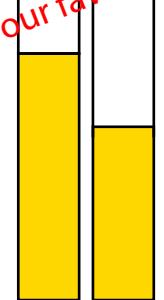


Figure 2: TGF-β Receptors exhibit distinct and recurrent pathway expression profiles

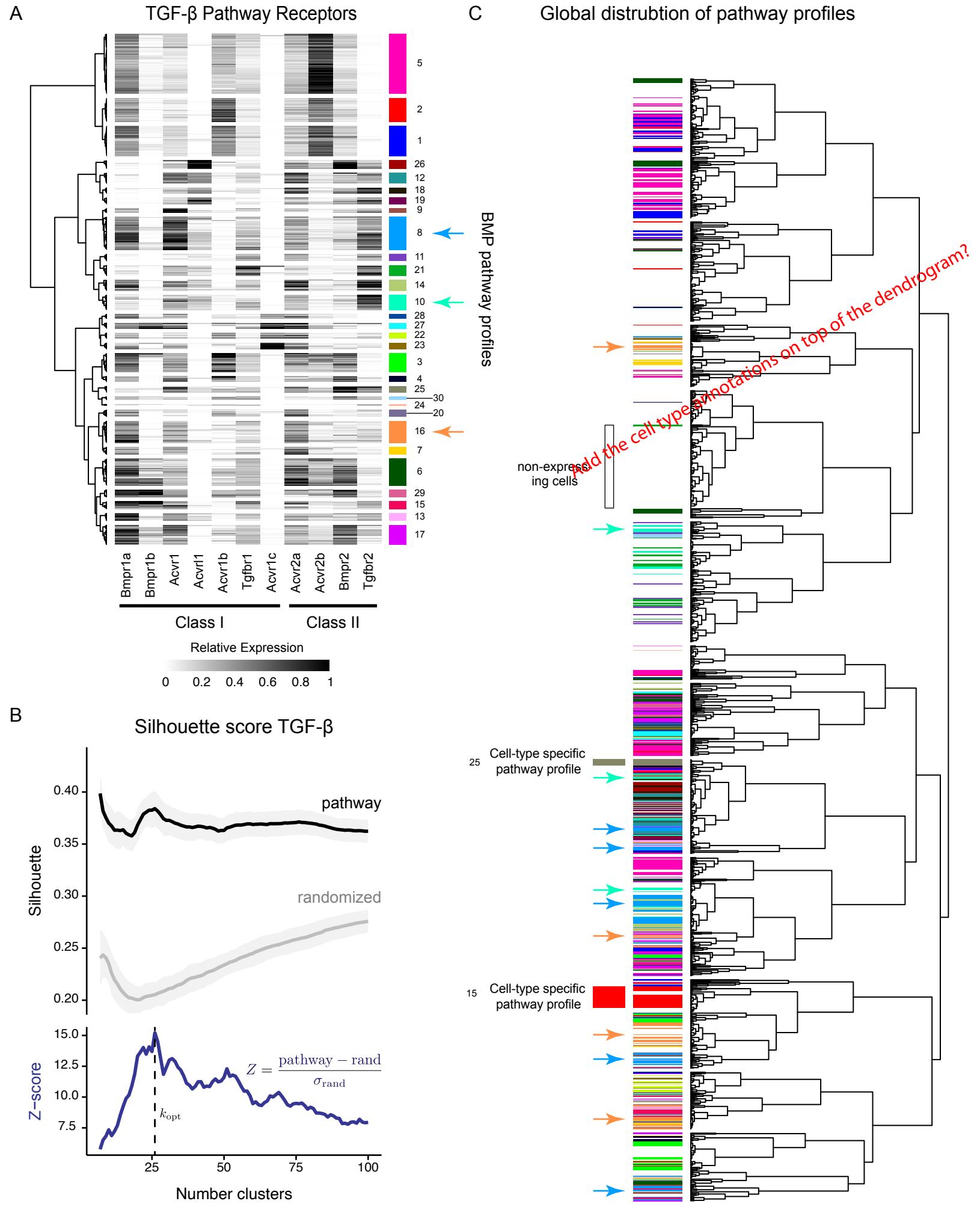
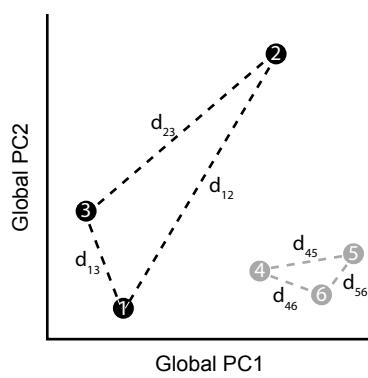


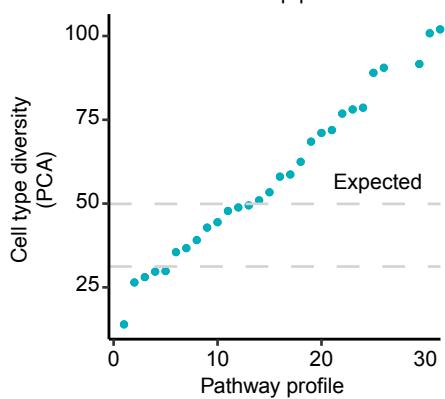
Figure 3: Some TGF- β motifs are expressed across diverse tissues and organs

A

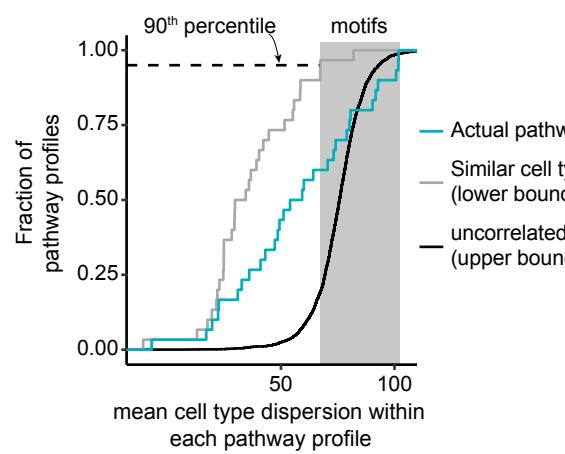
Schematic of pairwise distance computation
(Actual computation occurs in 100-dimensional PCA space)



Number of cell types with TGF- β profile

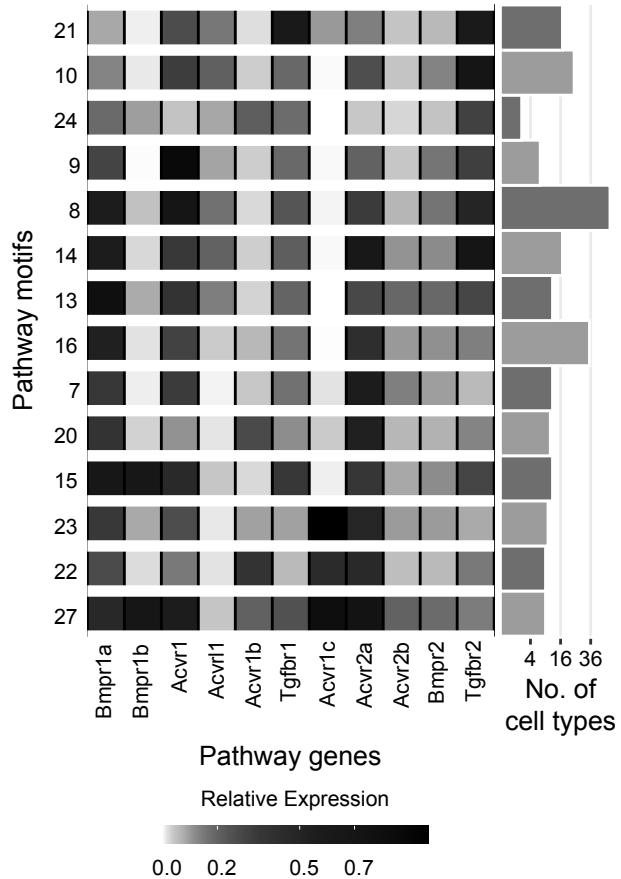


B



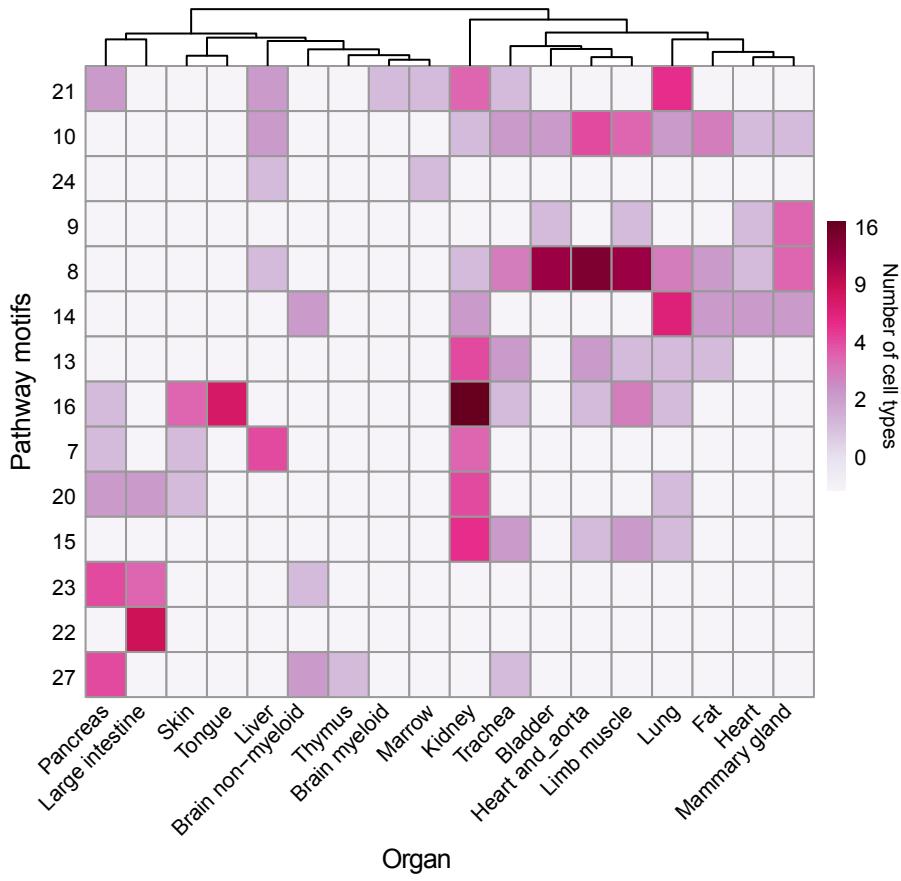
D

Broadly Dispersed TGF- β Motifs



E

Broadly Dispersed TGF- β Motifs



Add some cool examples?

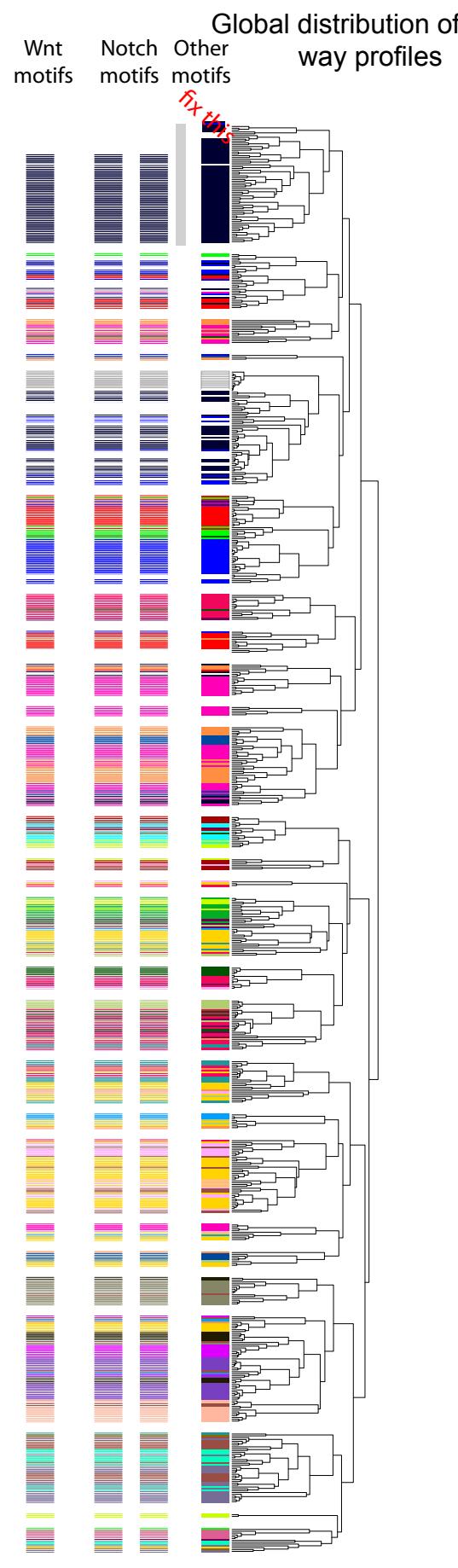
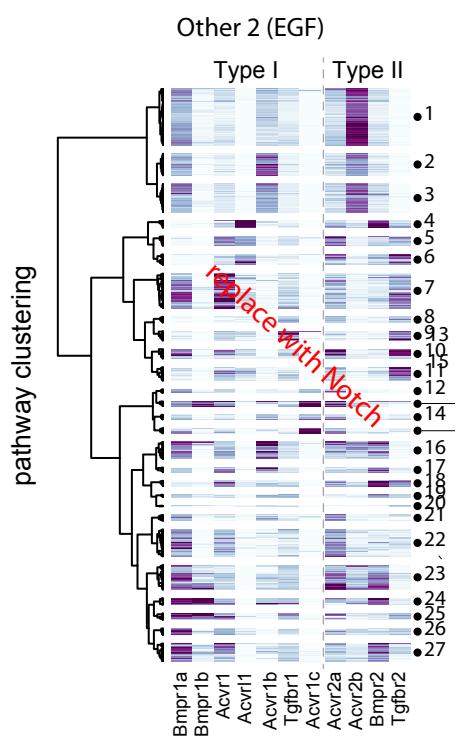
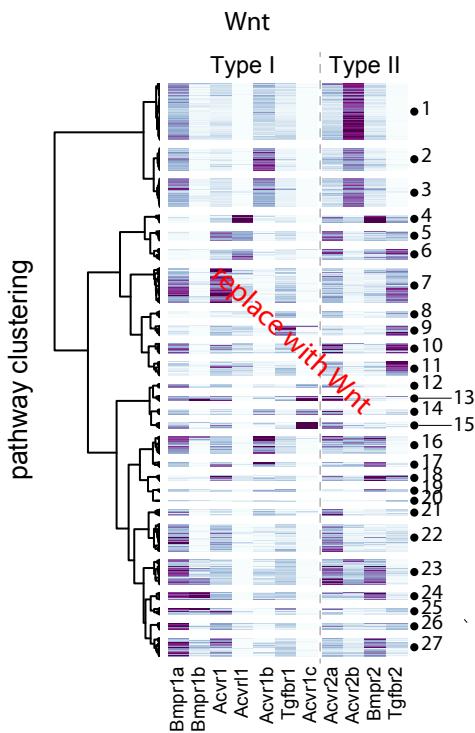
is it possible that epithelial or mesenchymal cells in different tissues tend to share the same profile?

Profile 16 is in a lot of epithelial cells (kidney, skin, bladder)

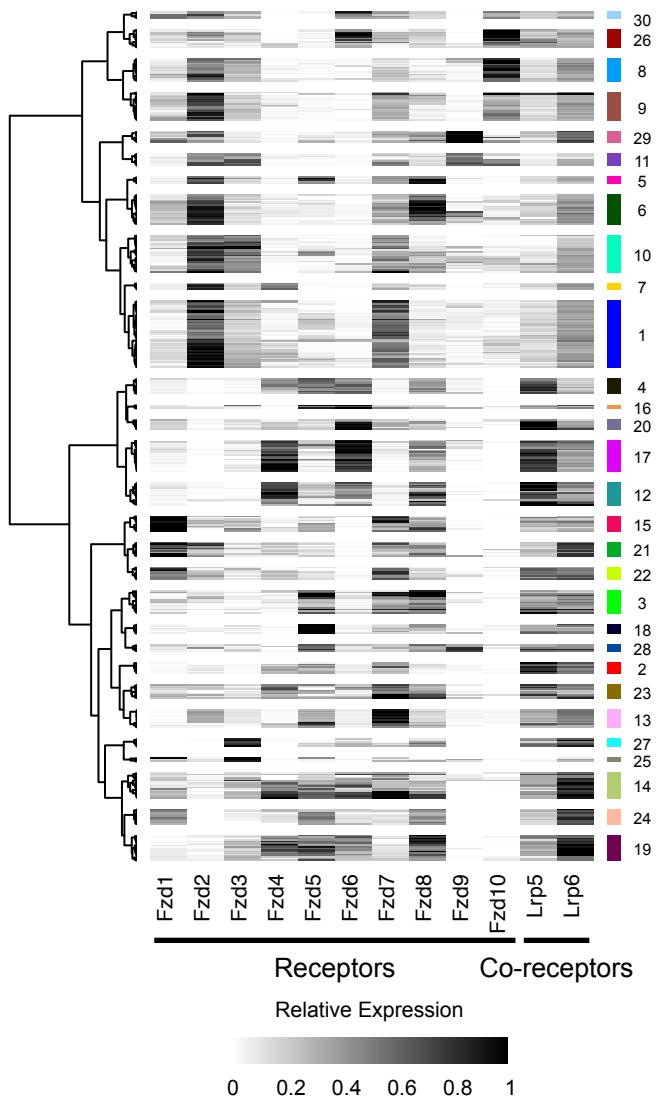
Barplot (w/ error bars) and listed cell types below for 2 interesting profiles (16 + 8?)

Figure 4: Wnt and Notch also show broadly dispersed recurrent pathway expression motifs

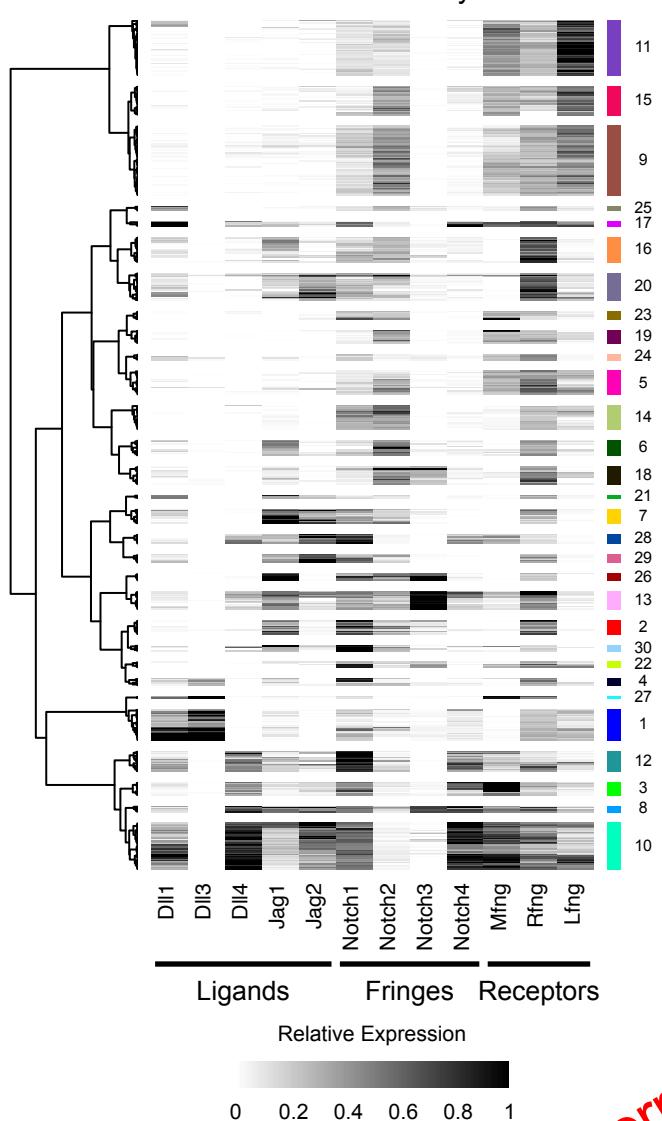
ofiles



Wnt Pathway Receptors



Notch Pathway



Pathway-pathay correlations

mutual info
matrix

