

Figure 1: Pathway expression profiles could be distributed across cell types in different ways.

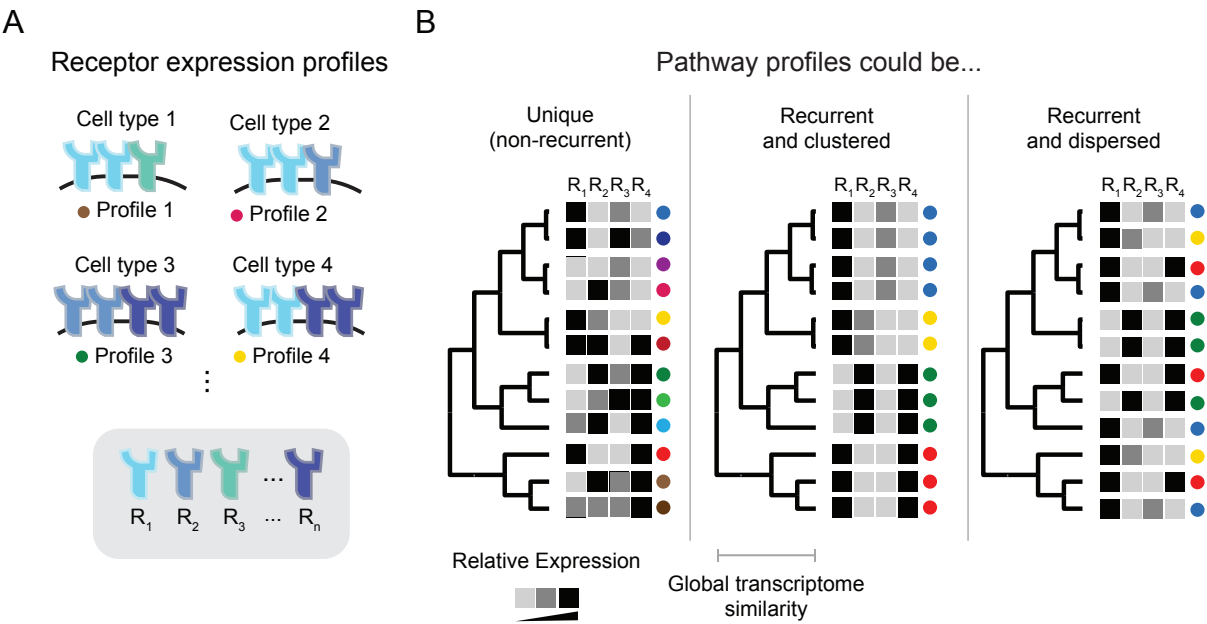
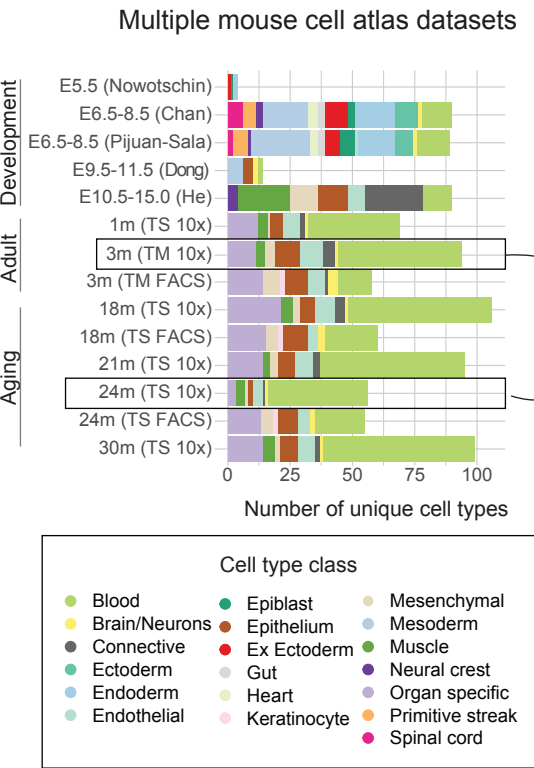
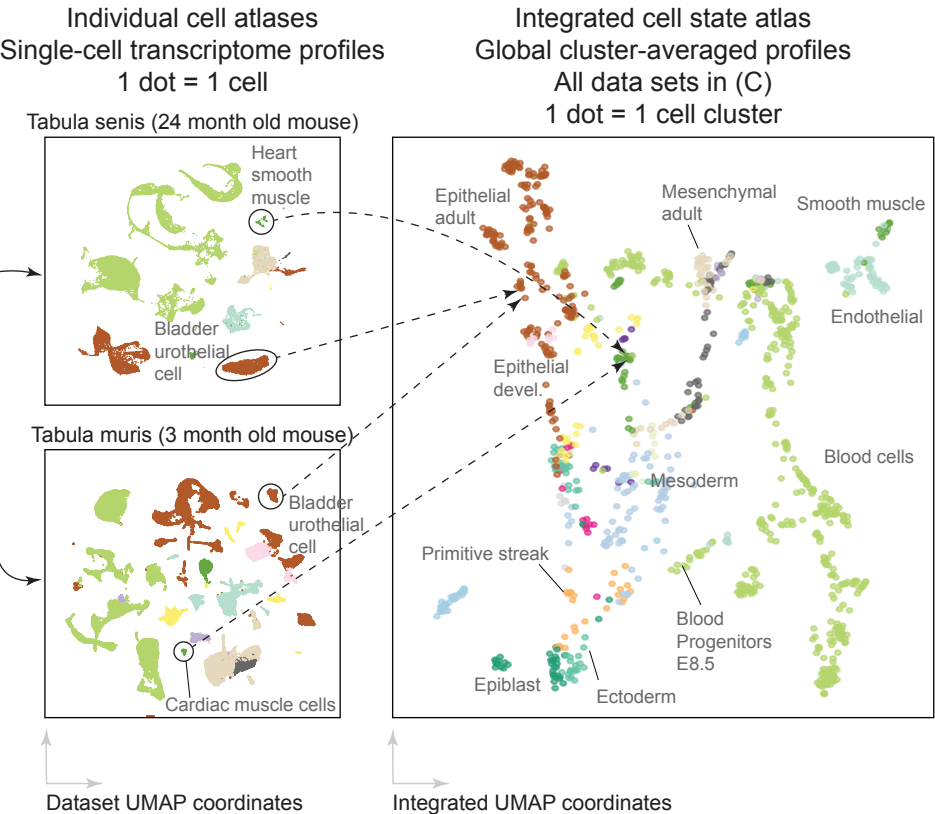


Figure 2: Integration of scRNA-seq atlas data reveals widespread expression of signaling pathway components.

A



B



C

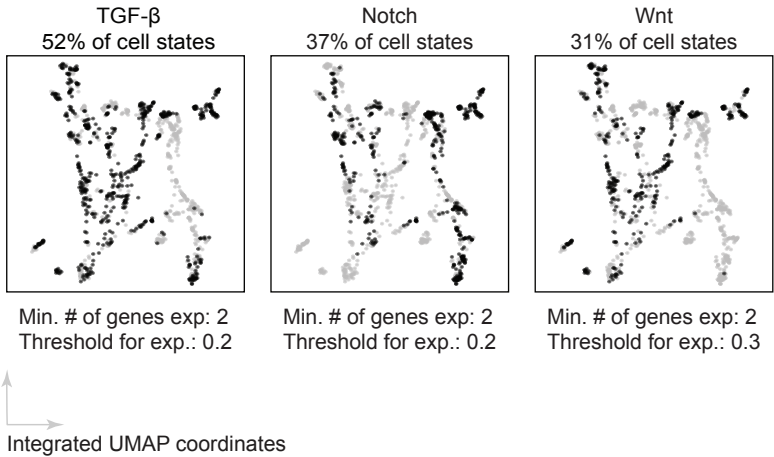


Figure 3: TGF-β receptors exhibit recurrent and dispersed pathway expression profiles.

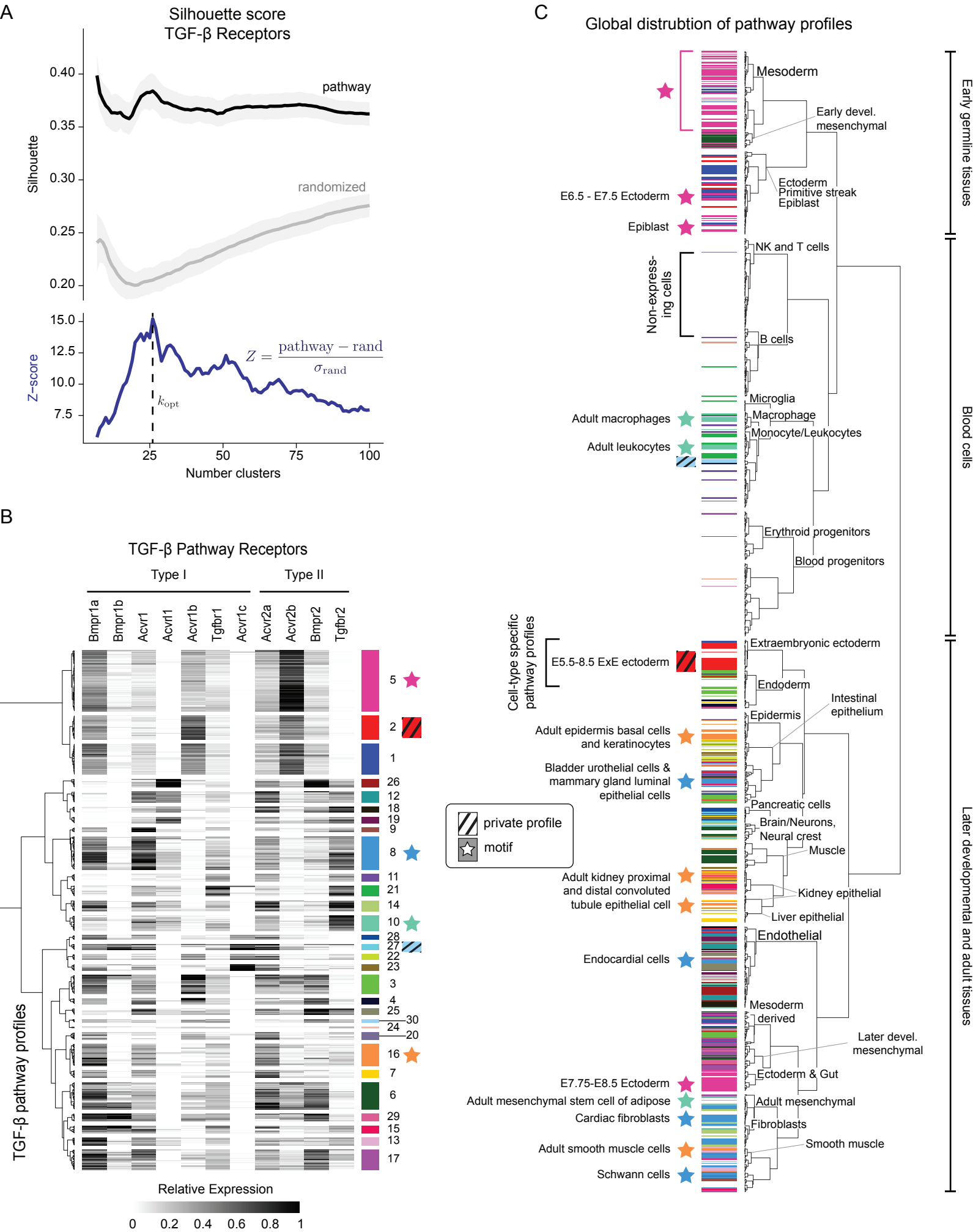


Figure 4: TGF- $\beta$  expression motifs are dispersed across cell types and organs.

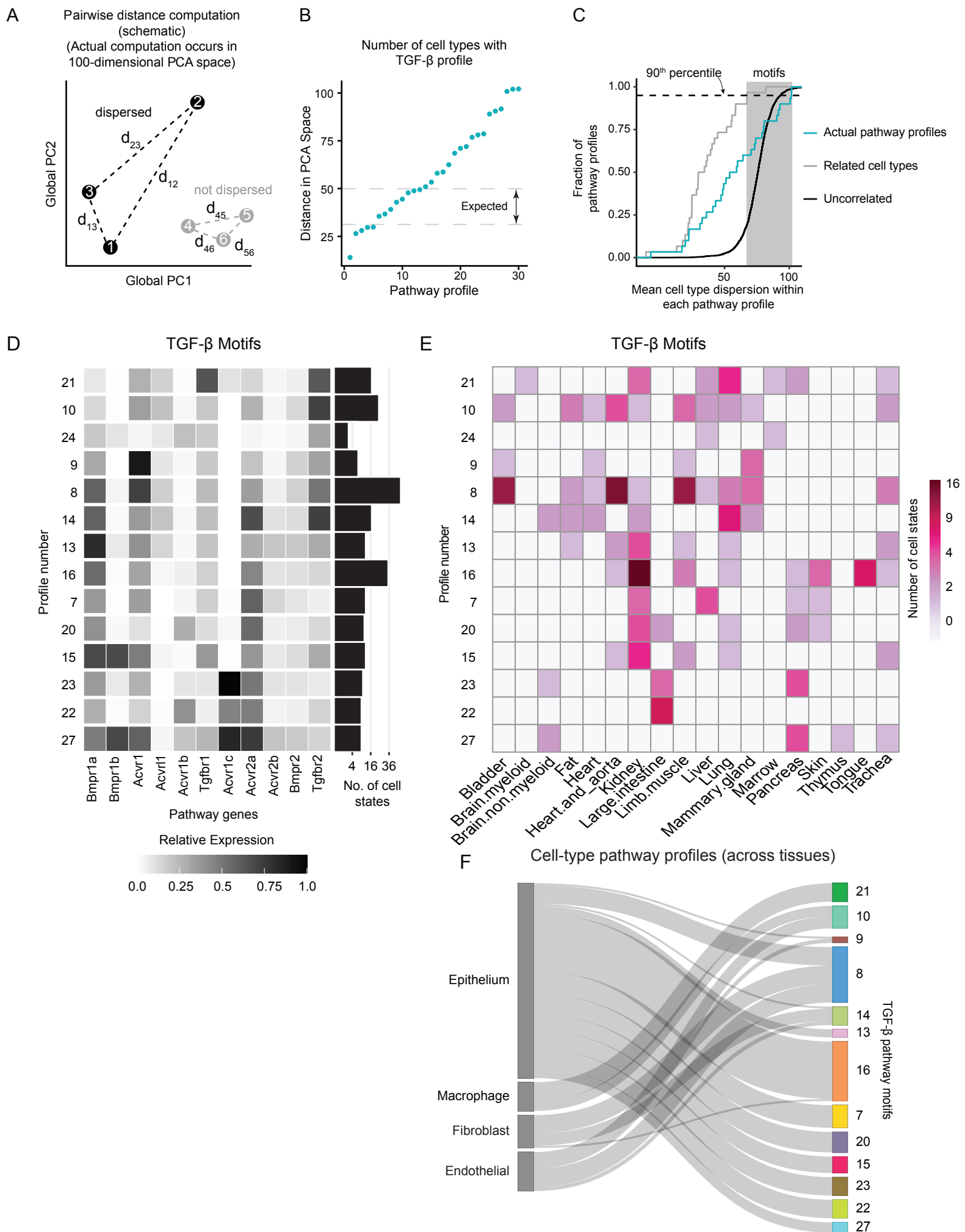
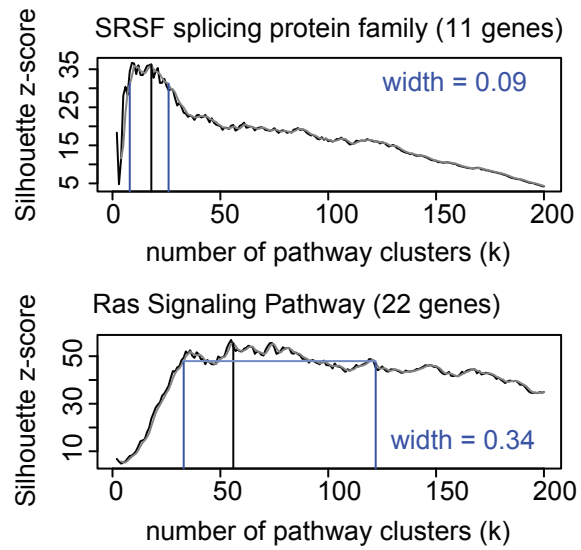


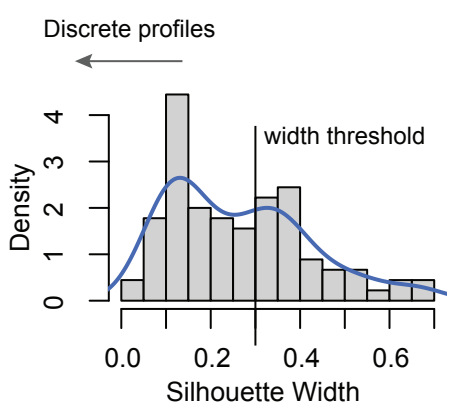


Figure 5: Expression motifs occur in multiple pathways.

A



B



C

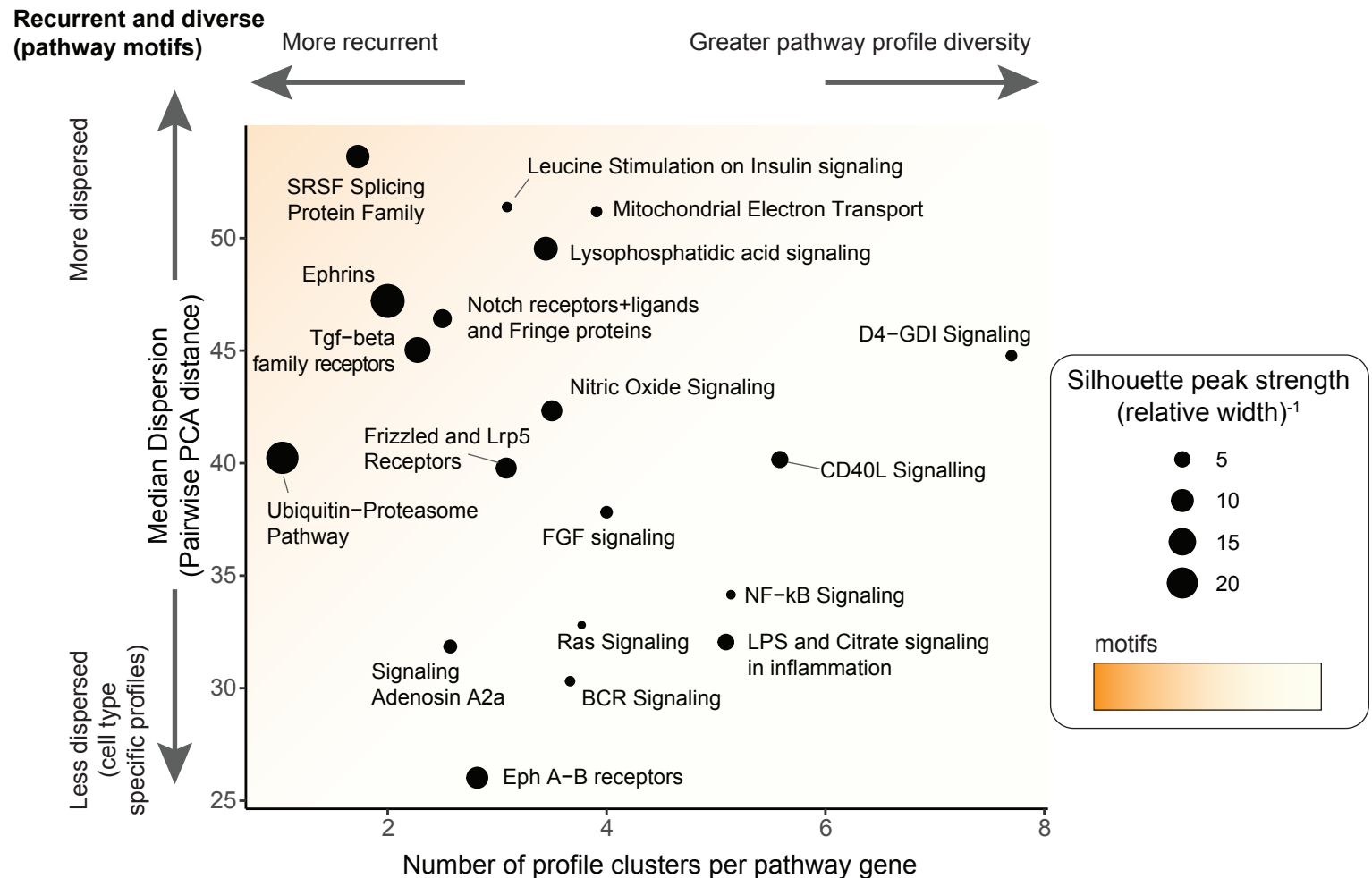
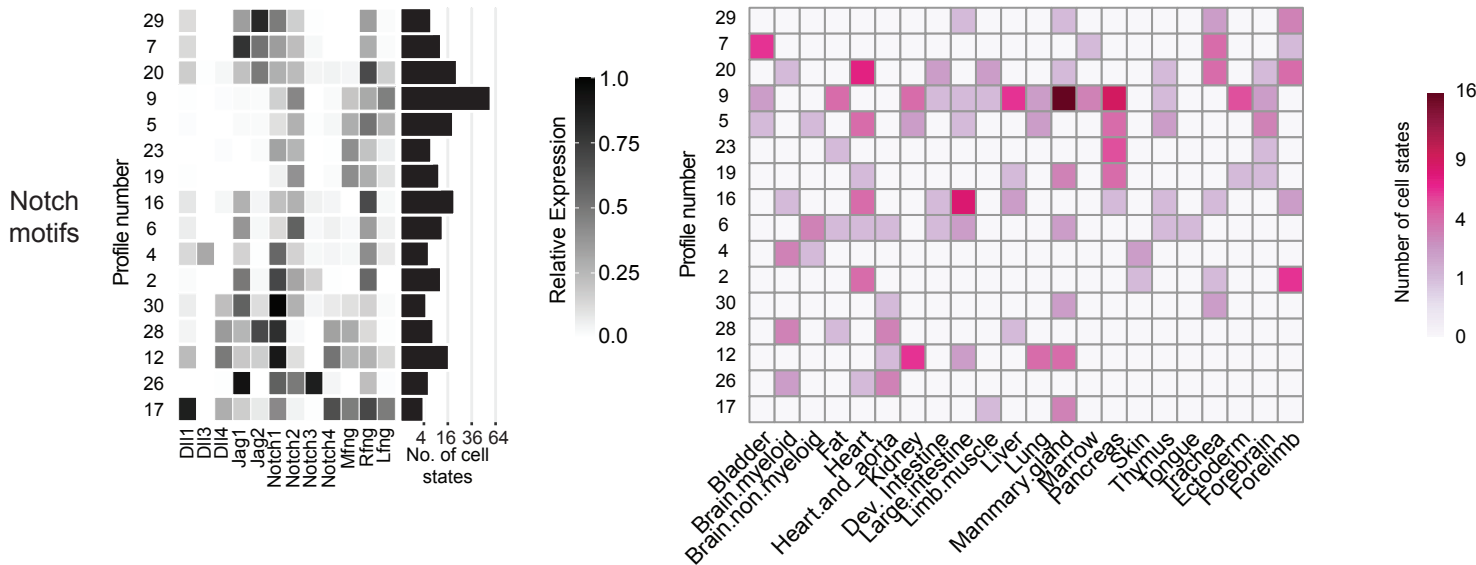
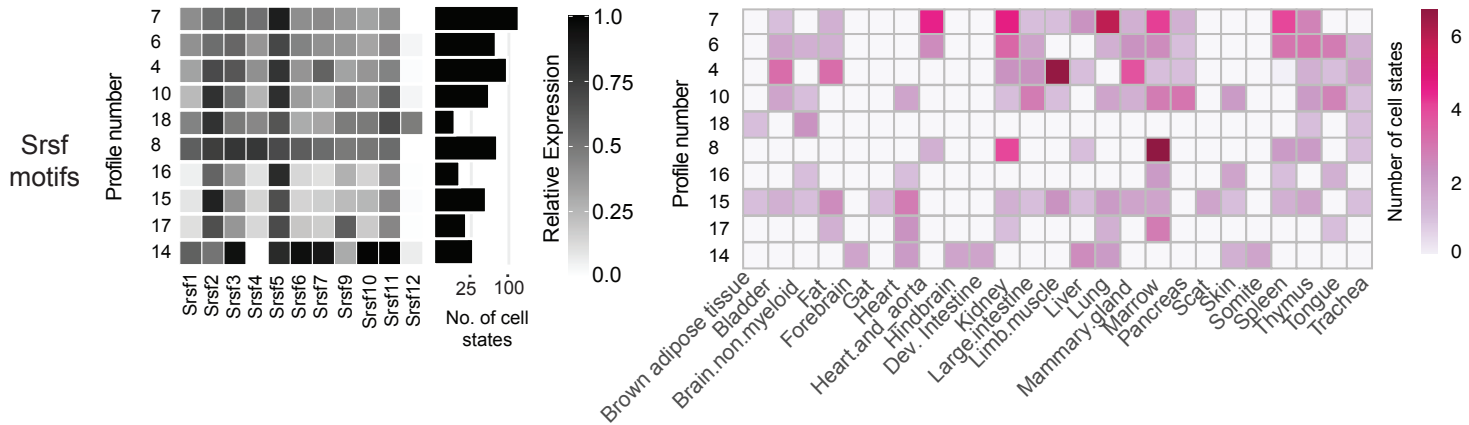


Figure 6: Expression motifs occur in multiple pathways and are largely uncorrelated.

A



B



C

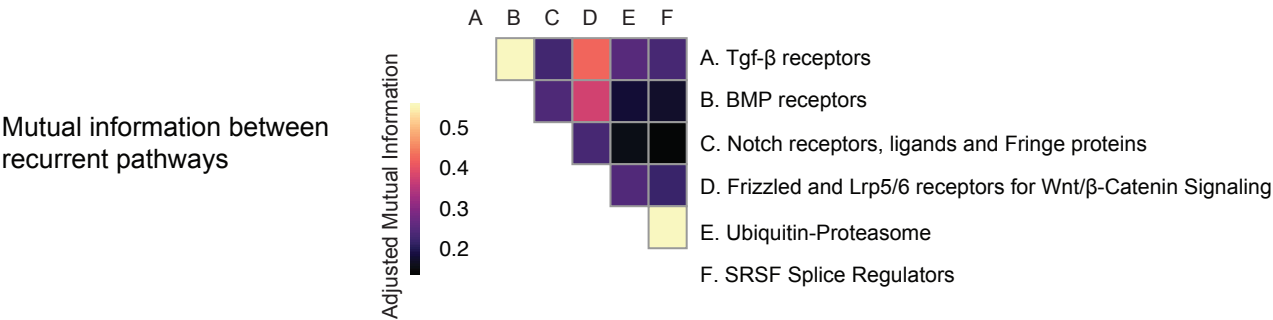


Figure 7: Developmental transitions of pathway profiles and summary

