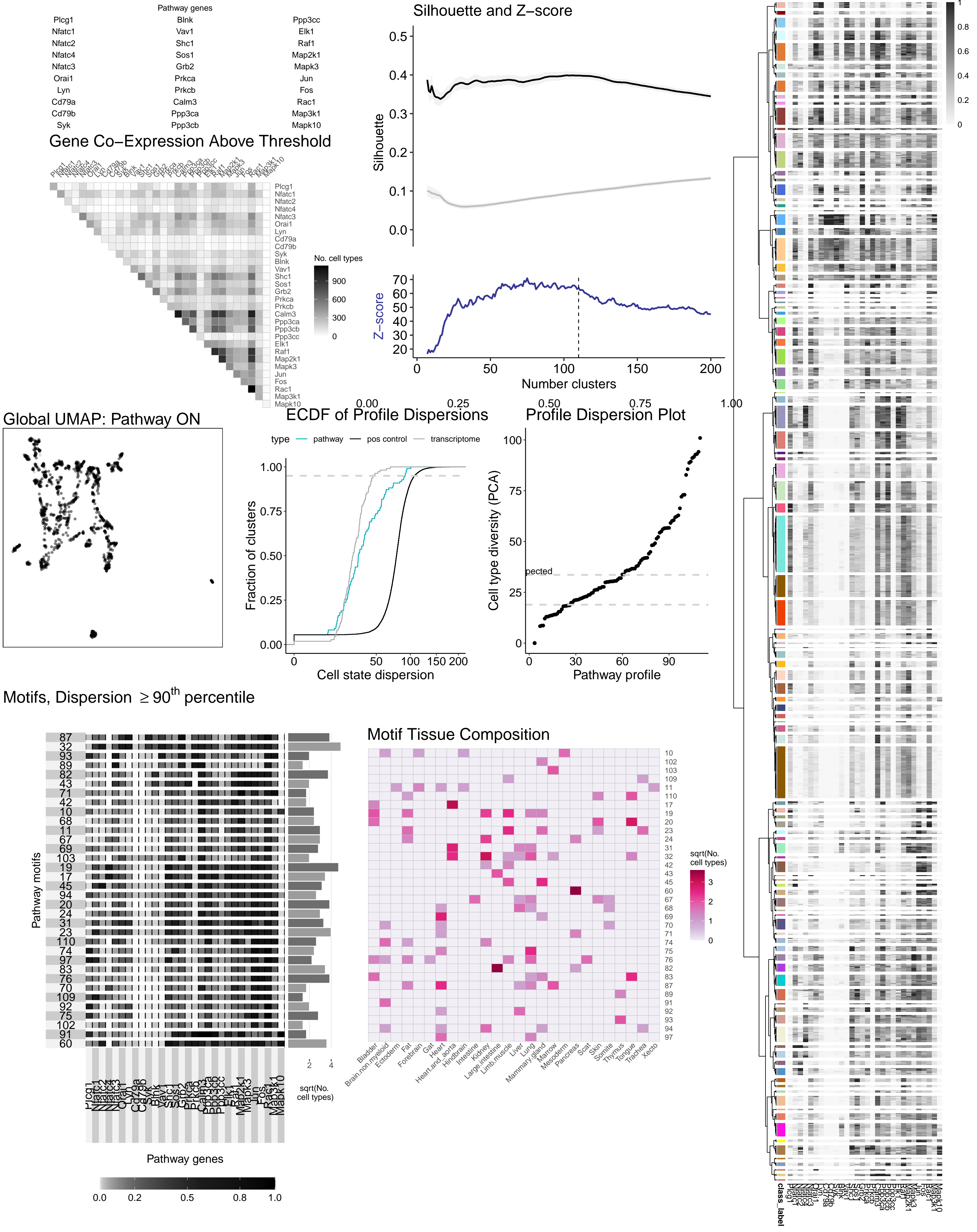
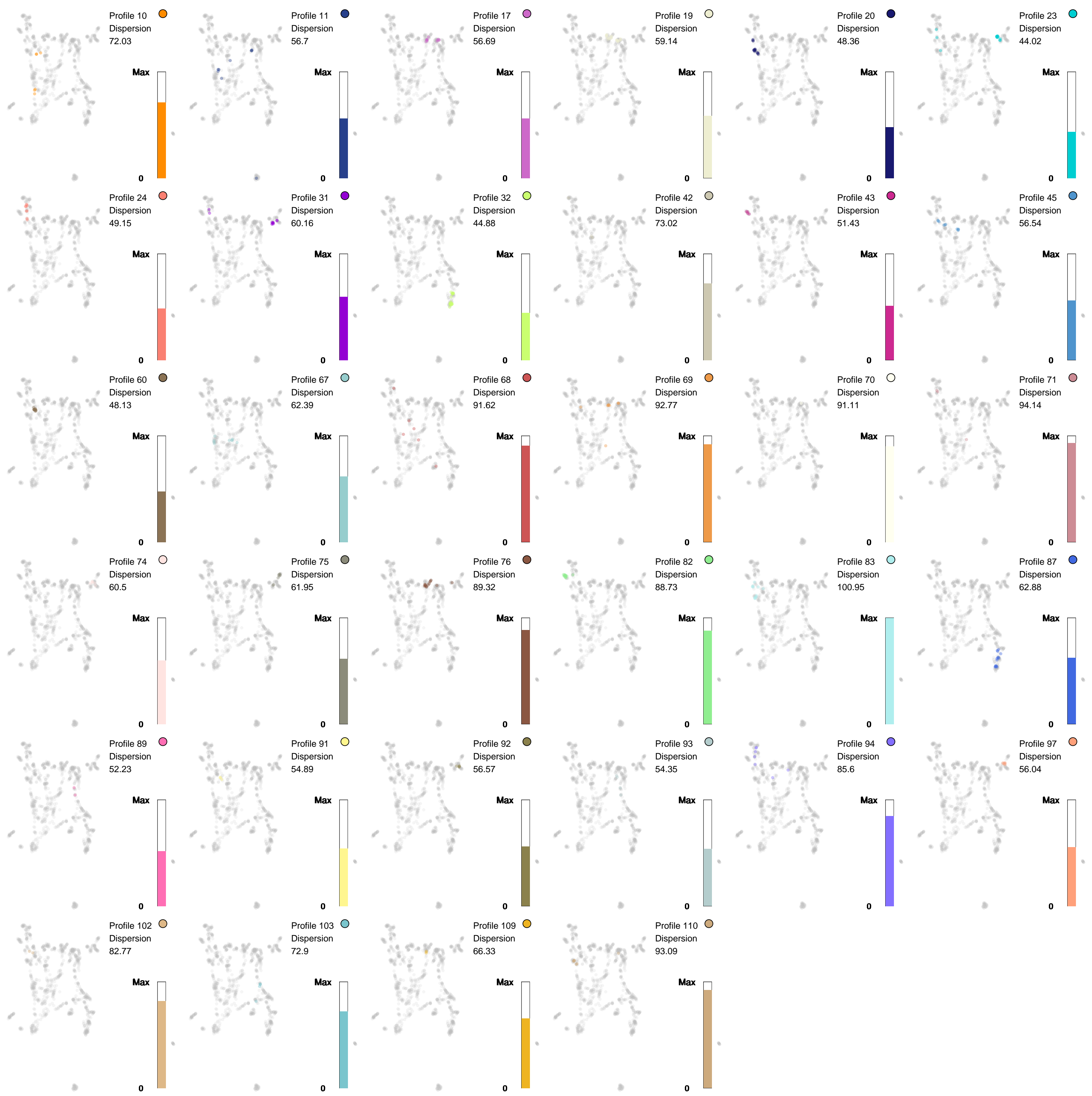


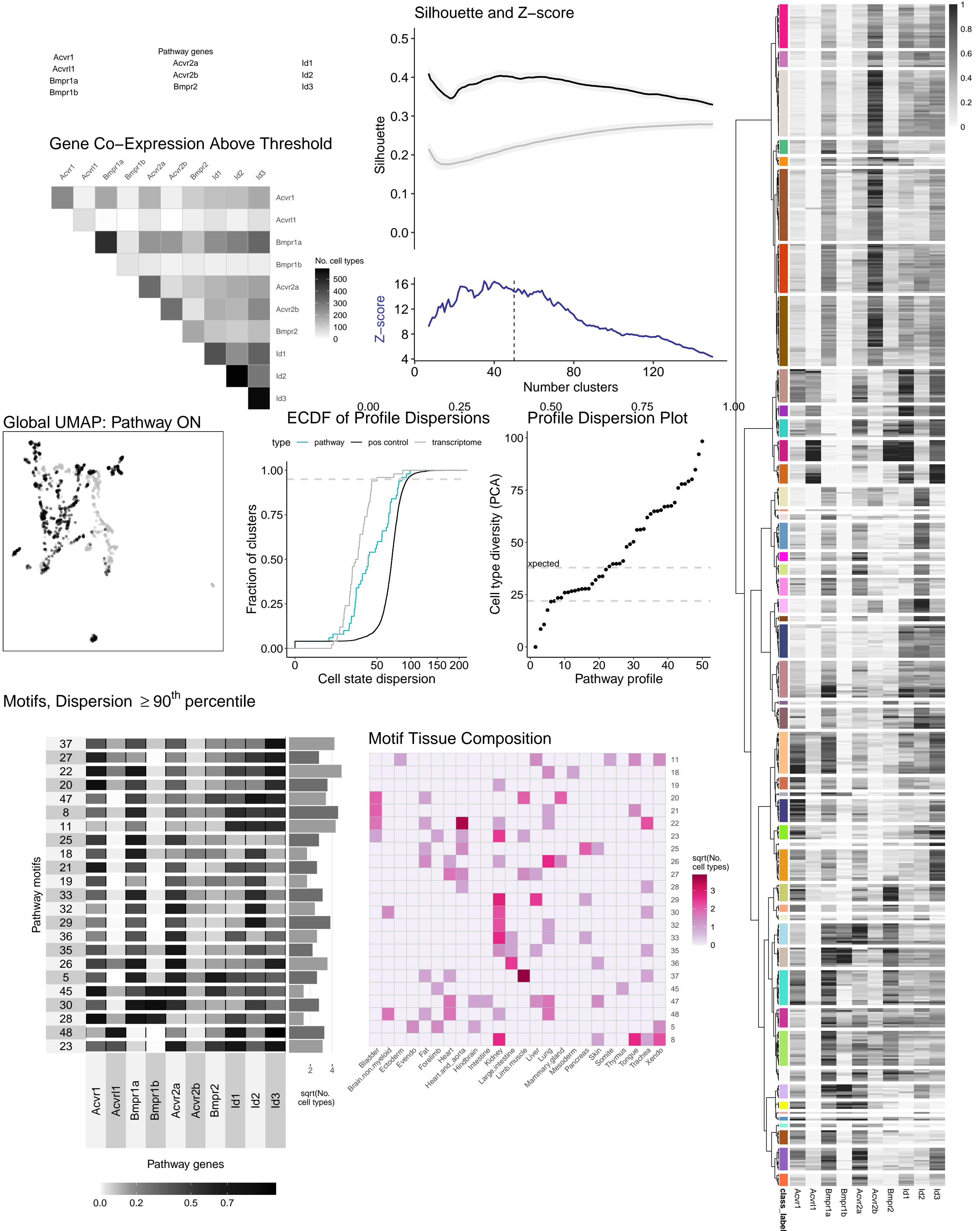
BCR Signaling Pathway (k_opt = 110)



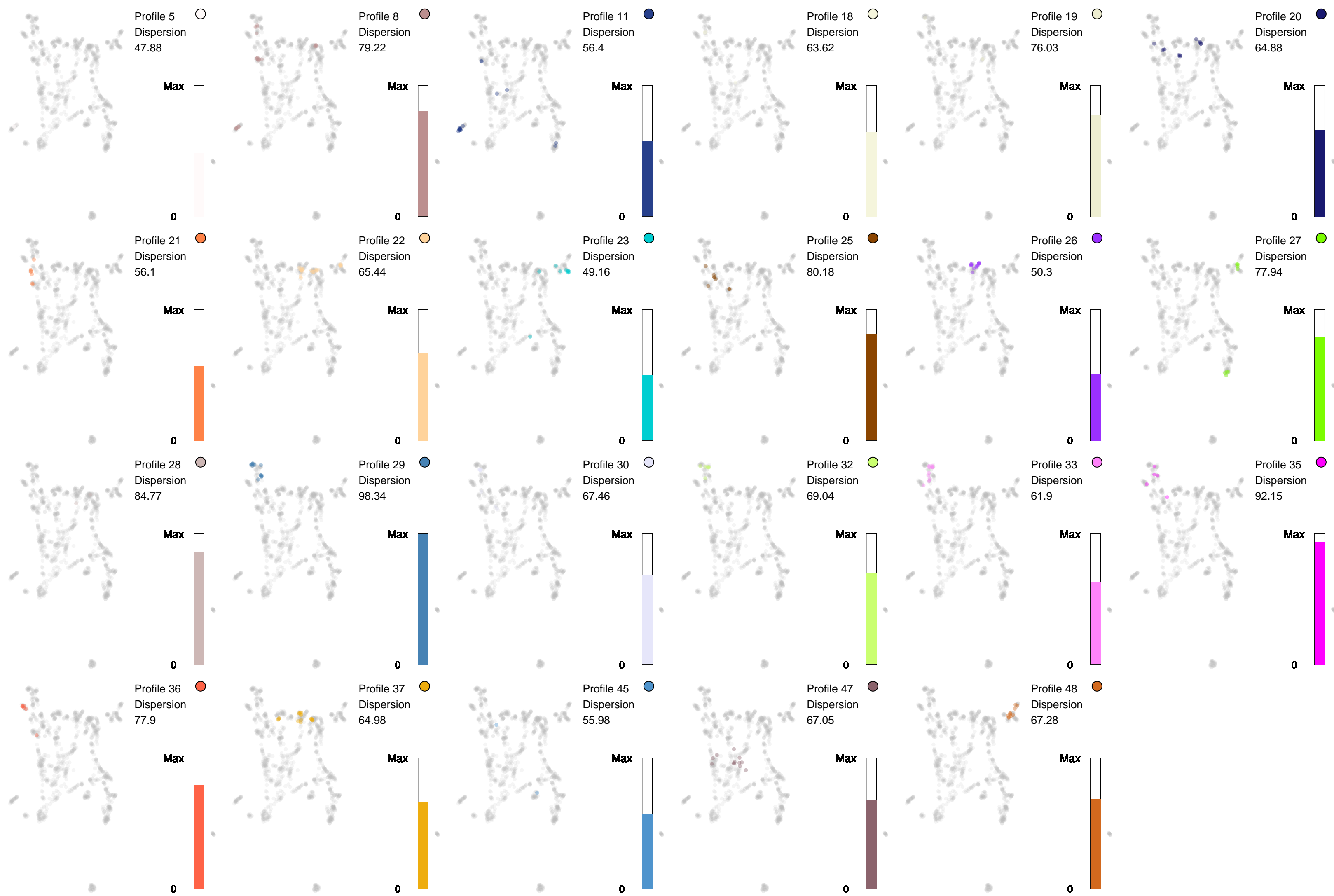
BCR Signaling Pathway (k_opt = 110)



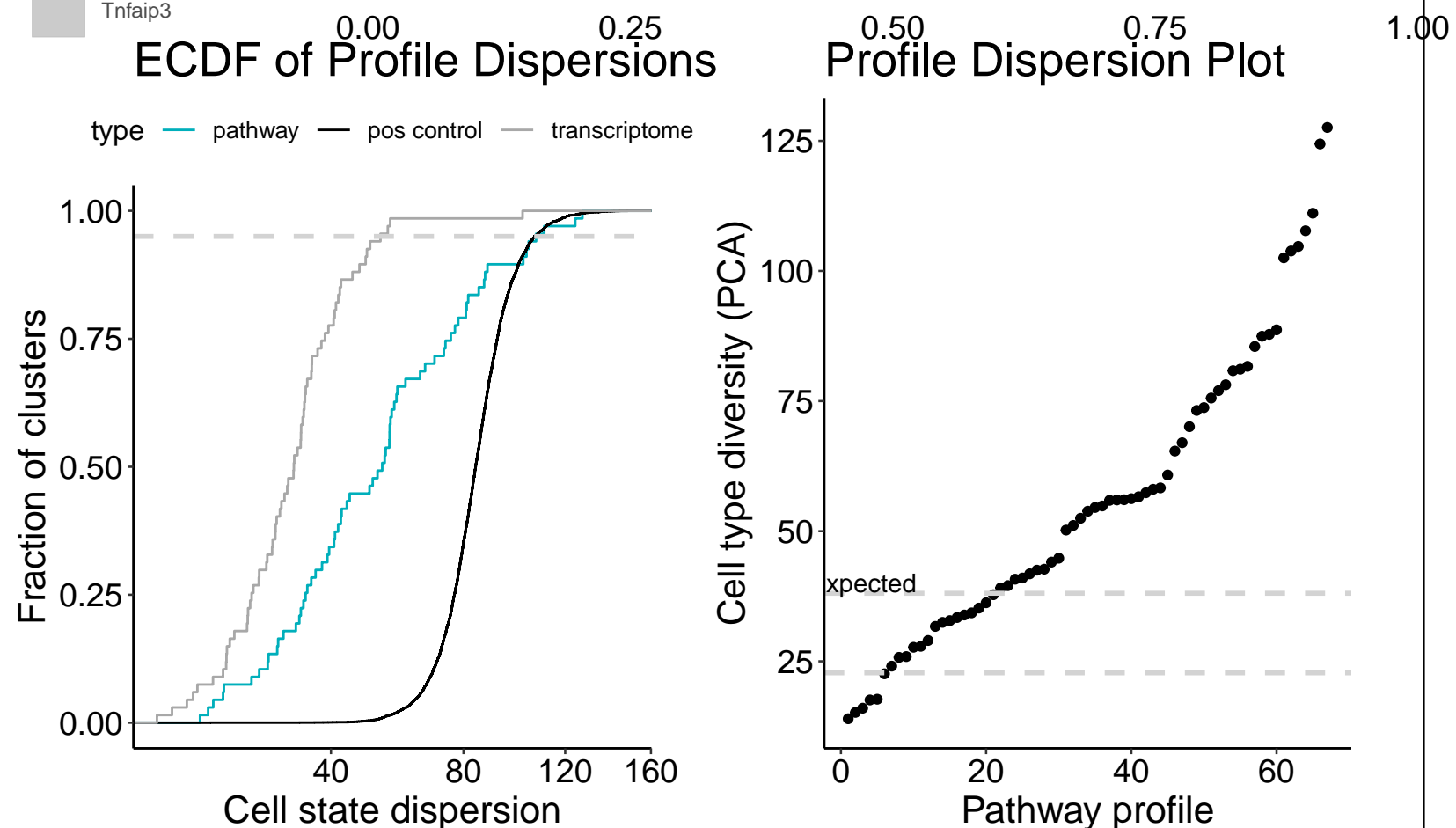
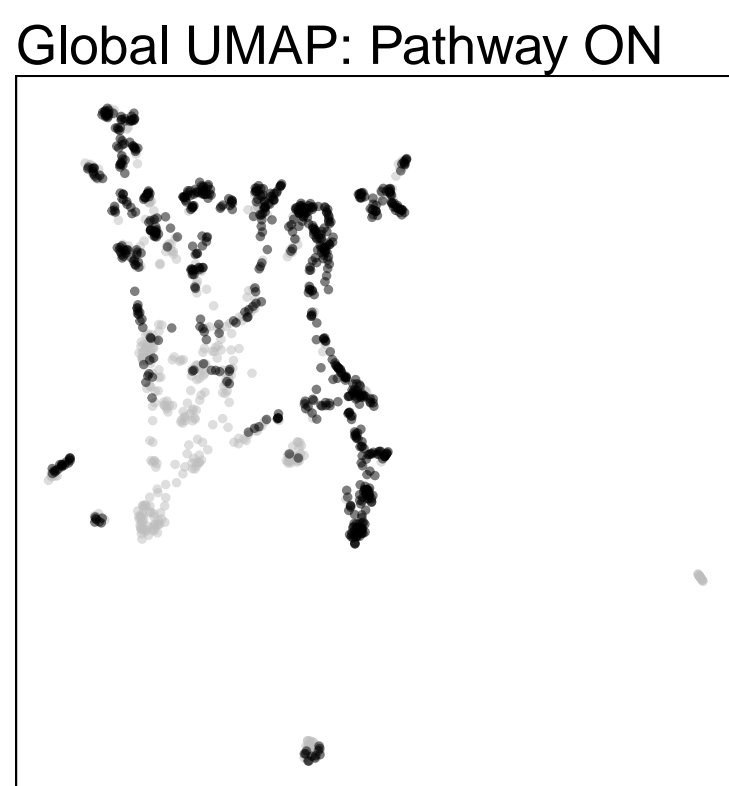
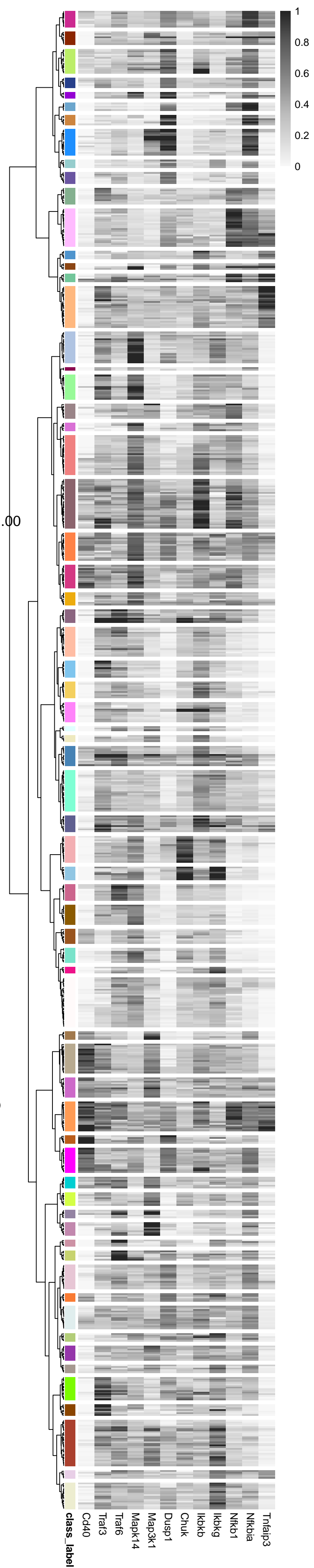
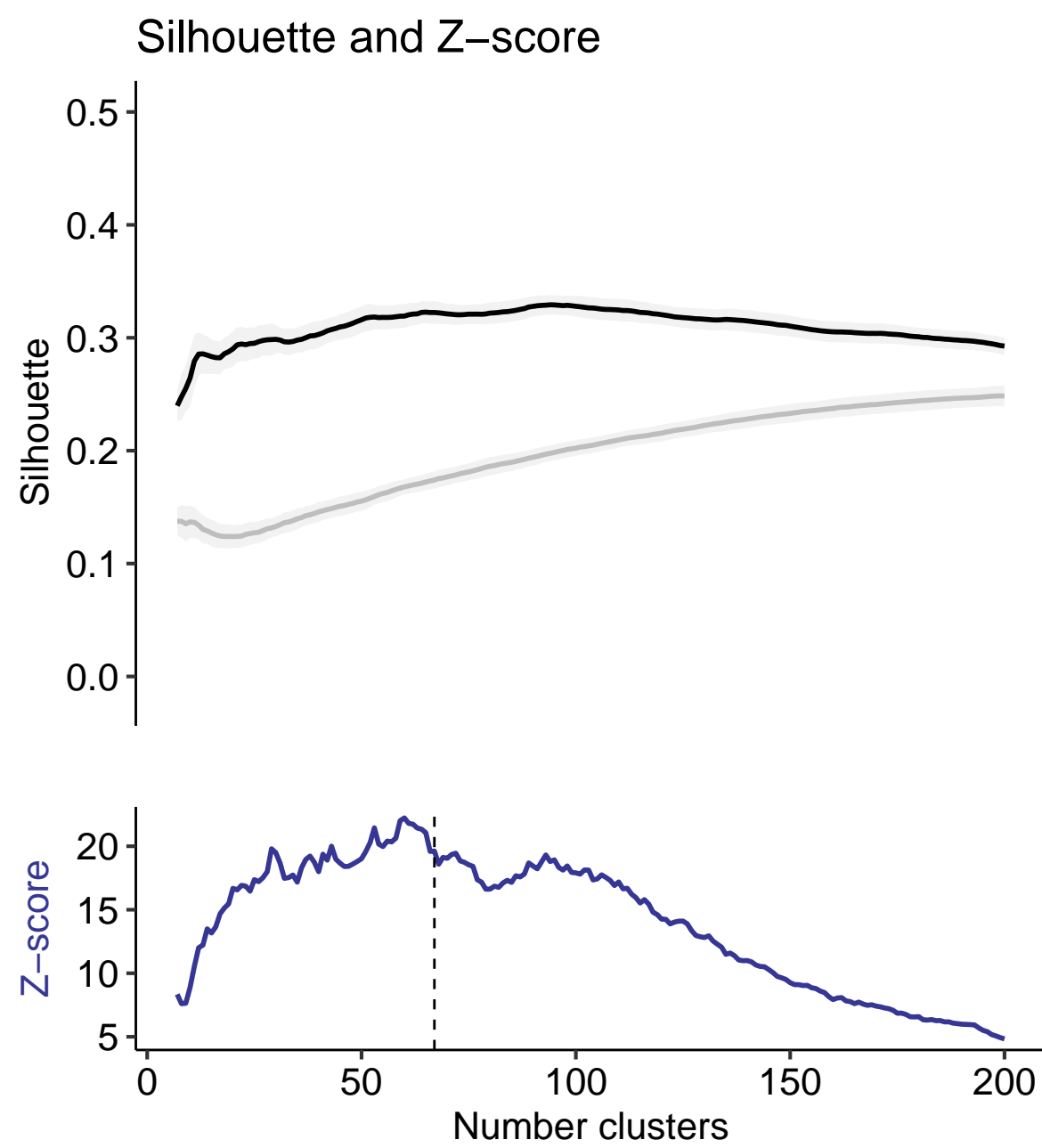
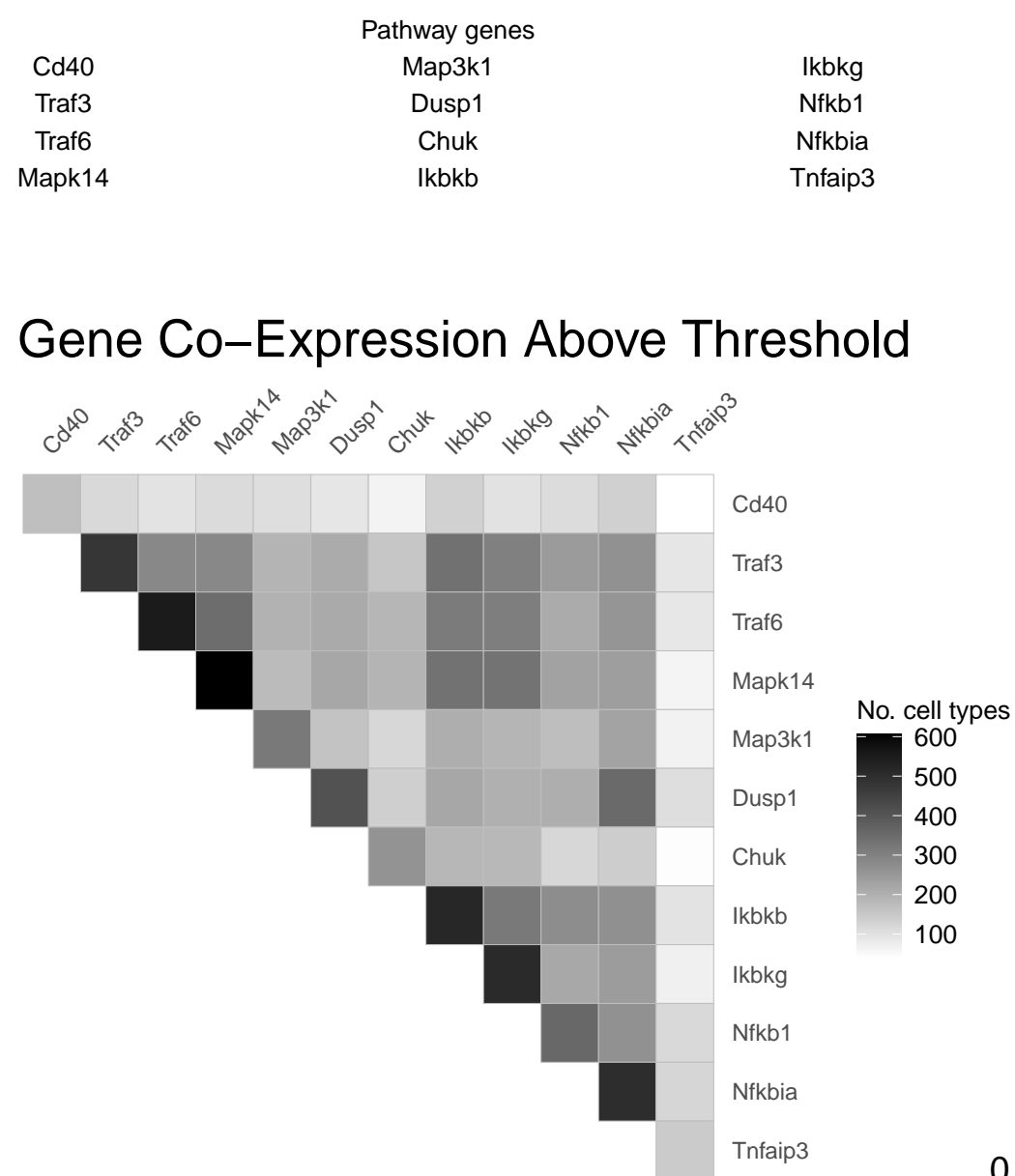
Bmp_down (k_opt = 50)



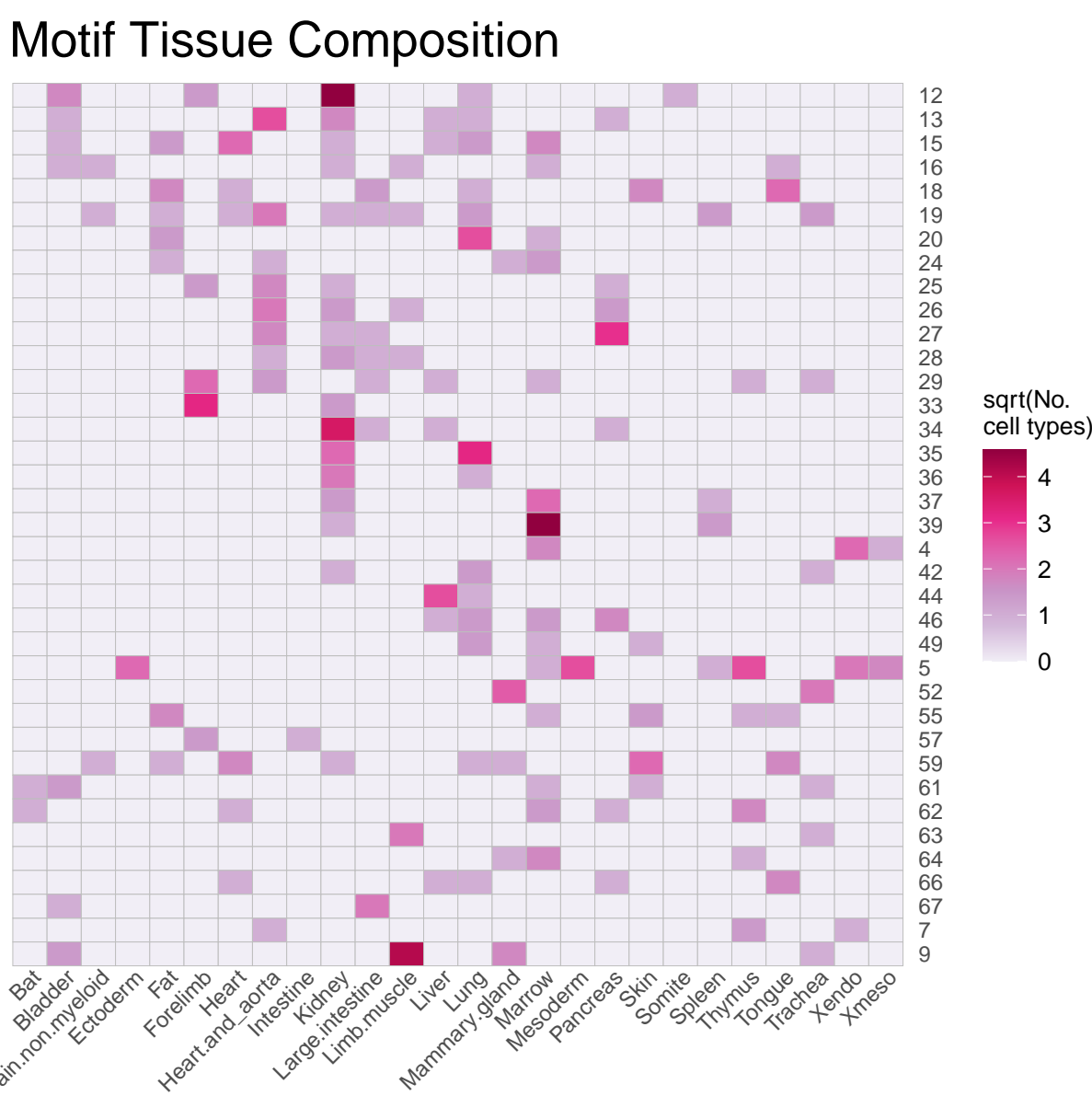
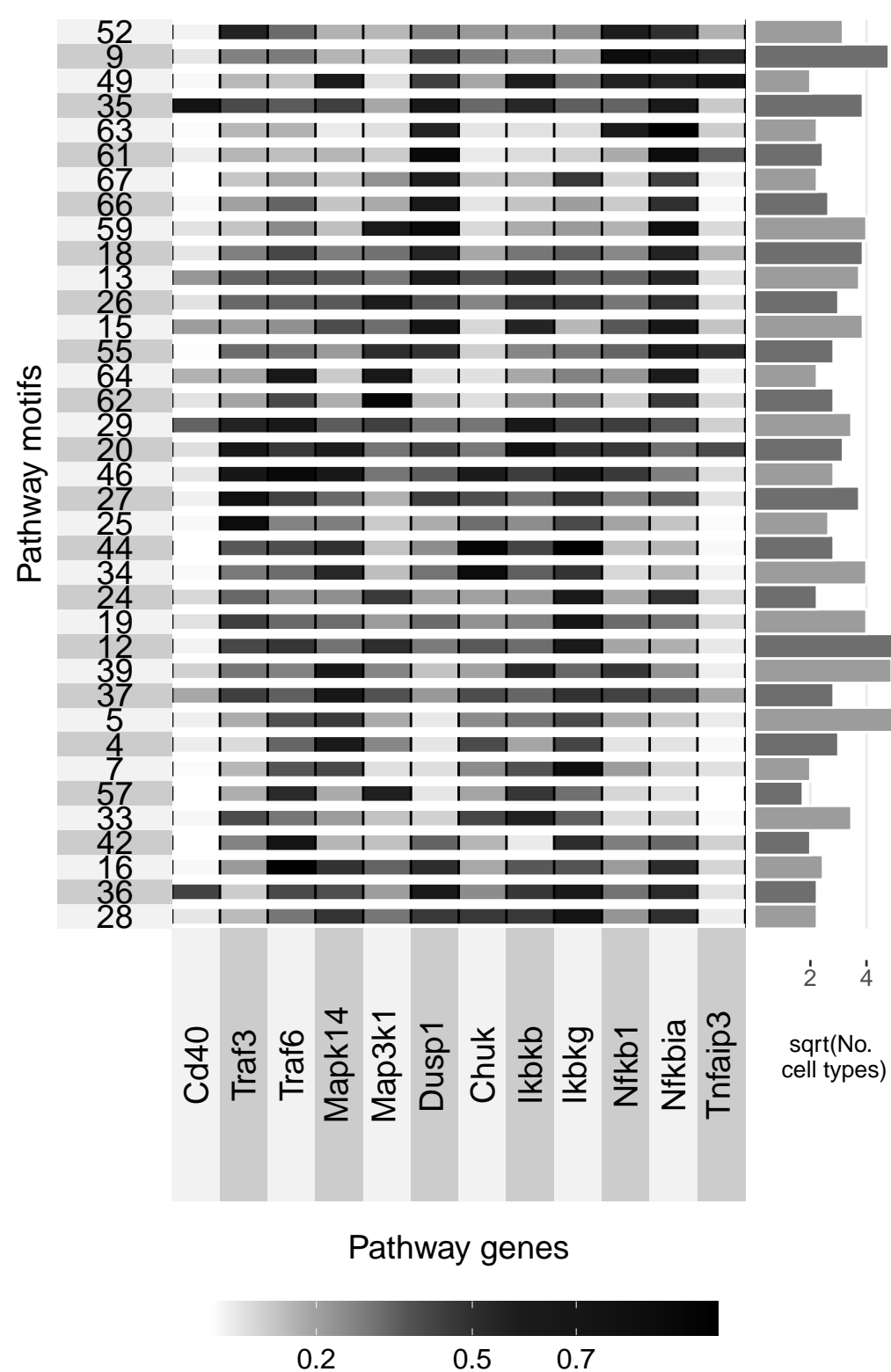
Bmp_down (k_opt = 50)



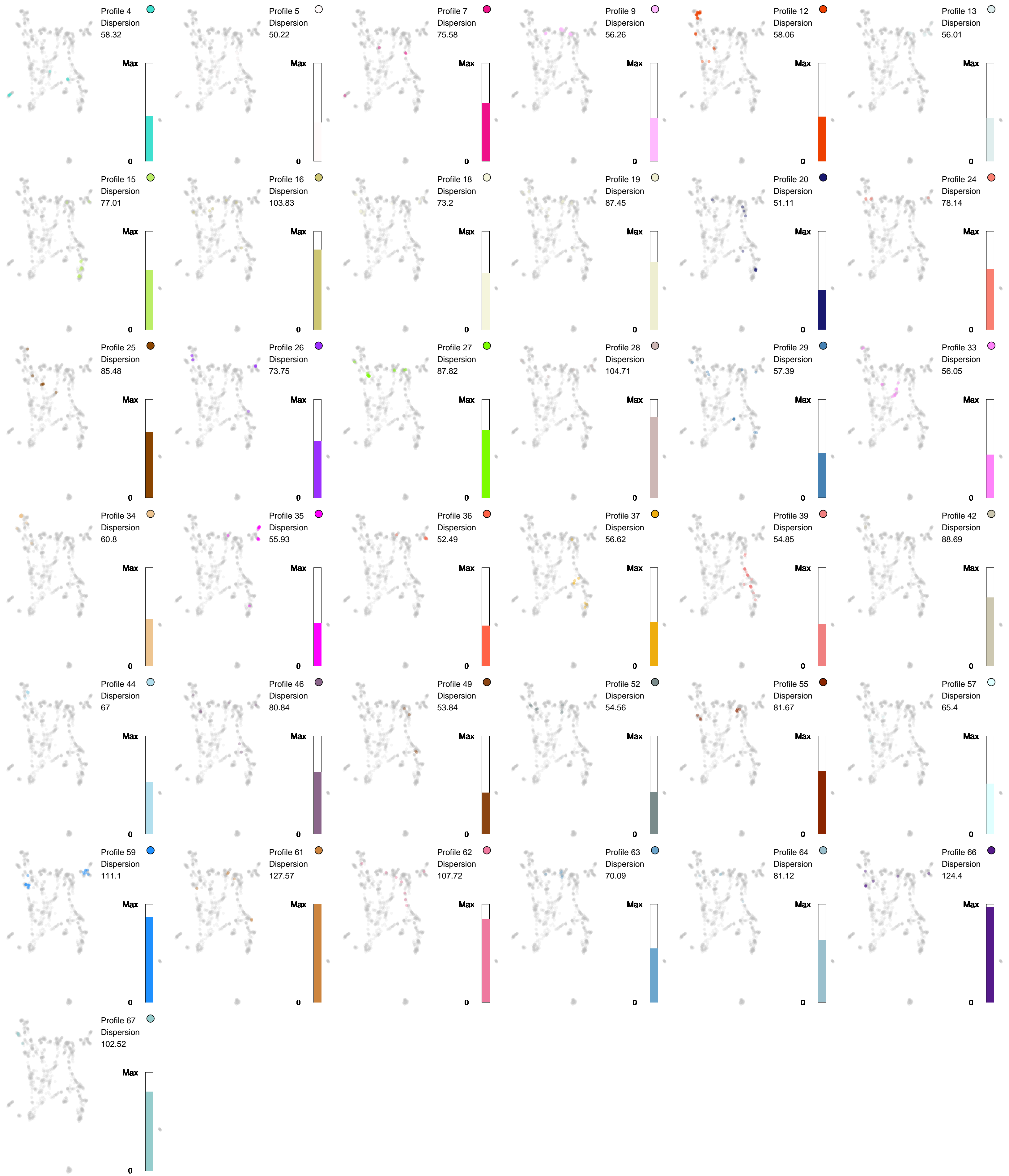
CD40L Signalling Pathway (k_opt = 67)



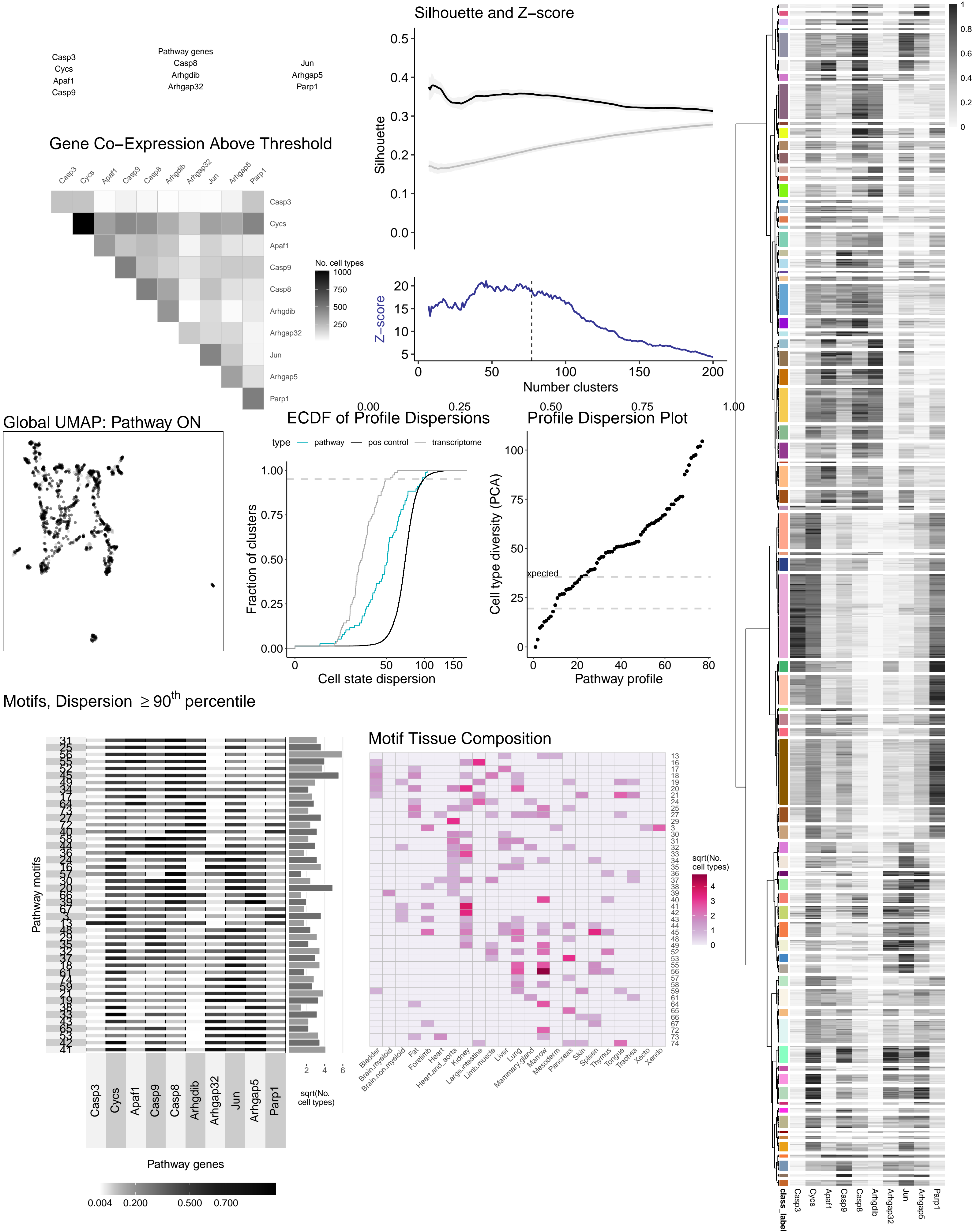
Motifs, Dispersion $\geq 90^{\text{th}}$ percentile



CD40L Signalling Pathway (k_opt = 67)



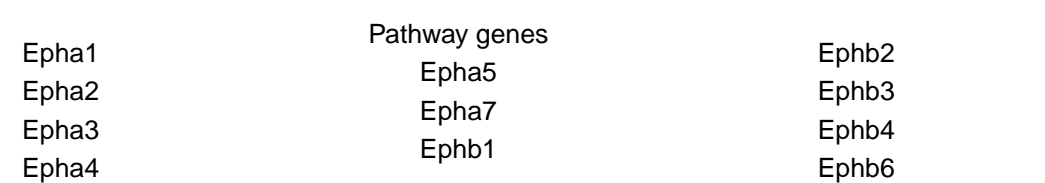
D4–GDI Signaling Pathway (k_opt = 77)



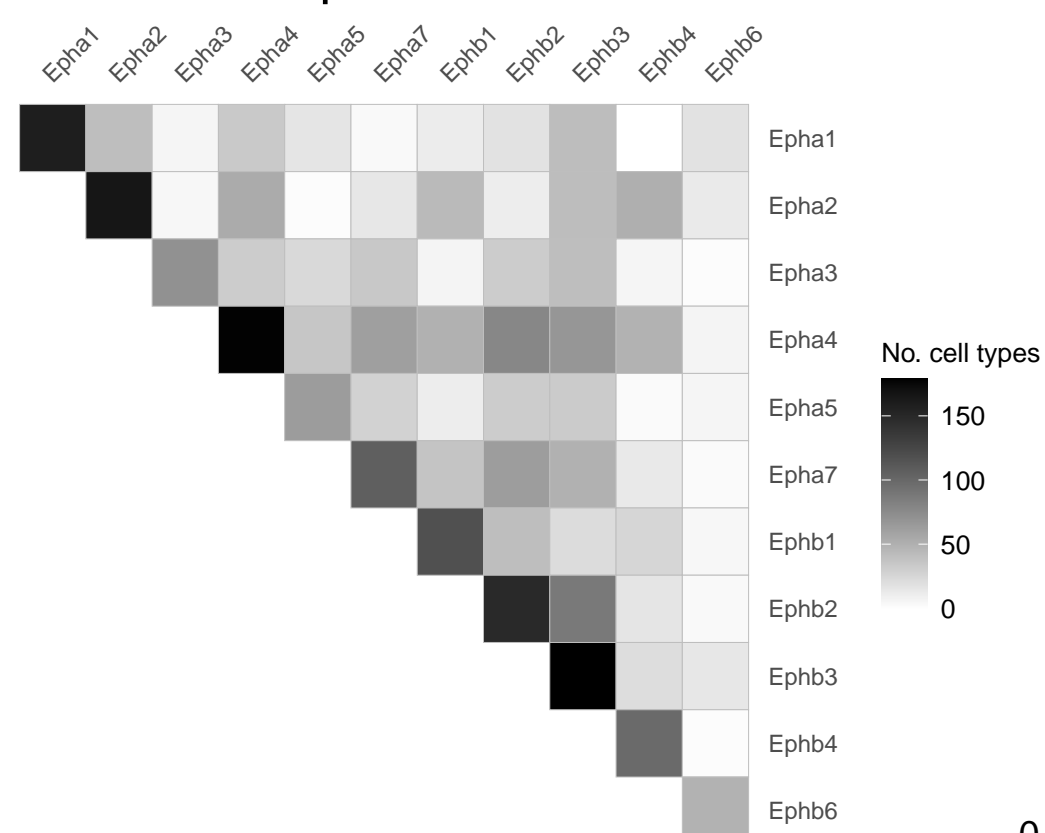
D4-GDI Signaling Pathway (k_opt = 77)



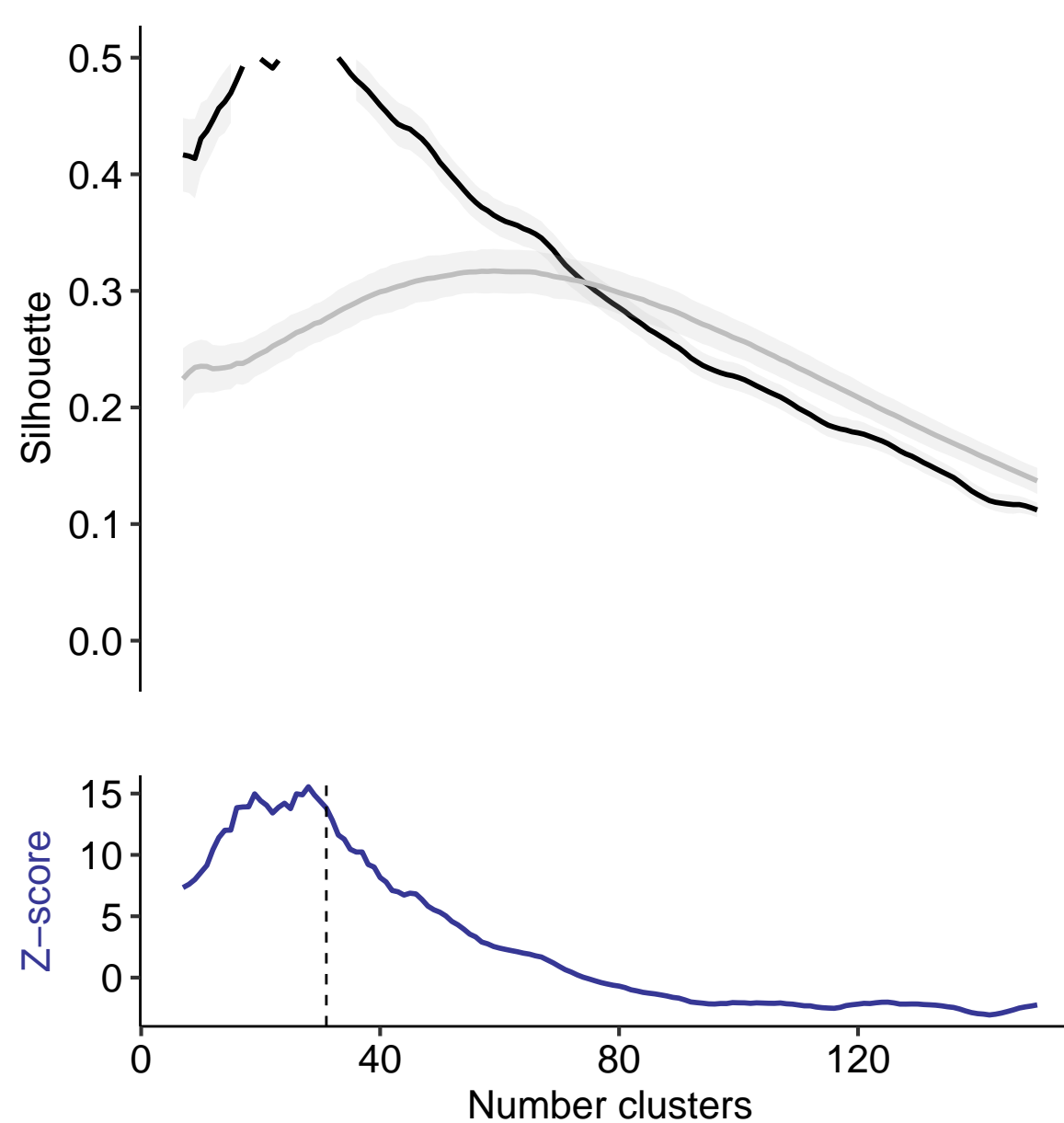
Eph A–B receptors (k_{opt} = 31)



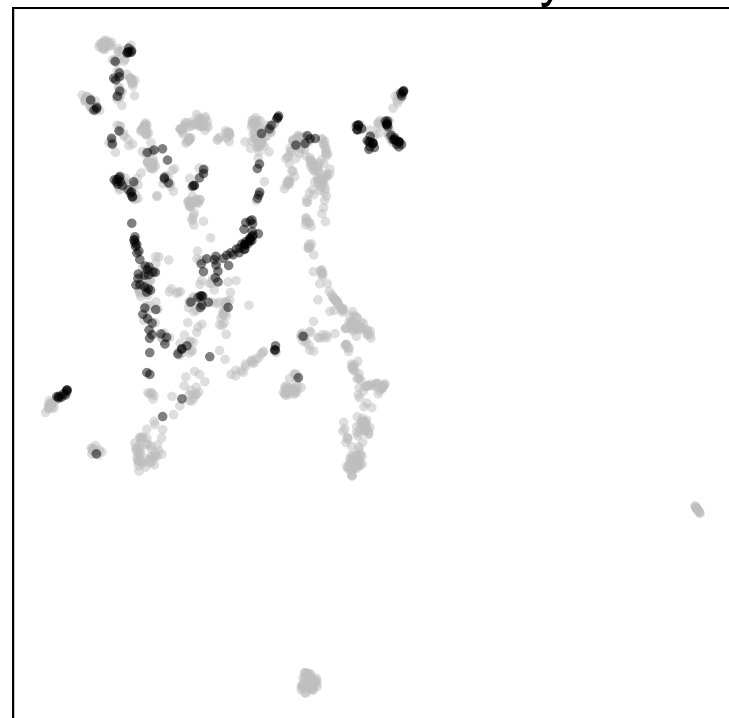
Gene Co-Expression Above Threshold



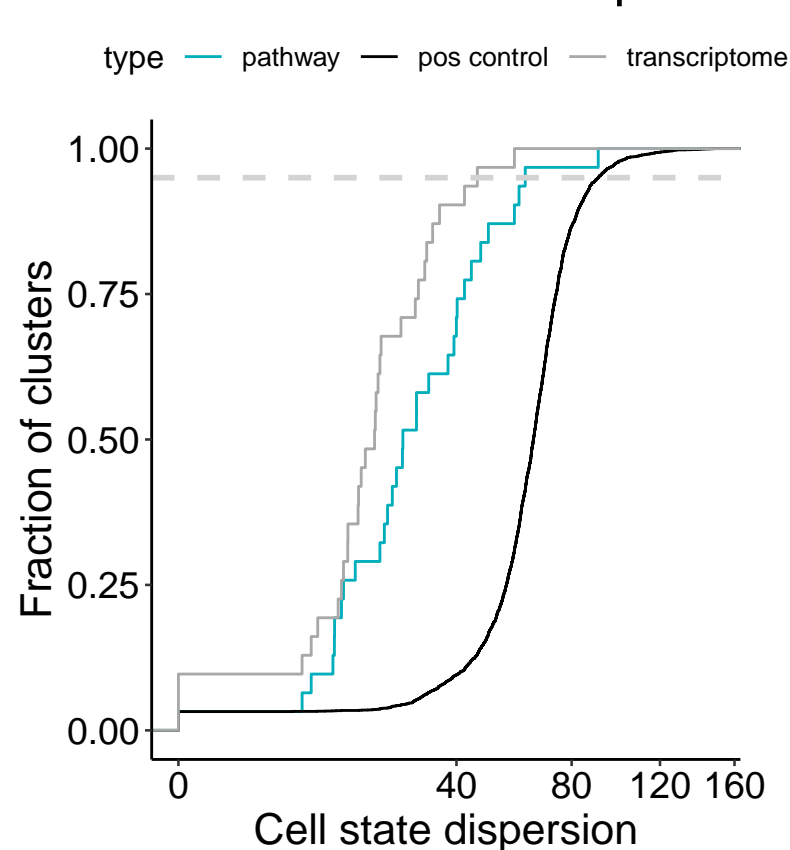
Silhouette and Z-score



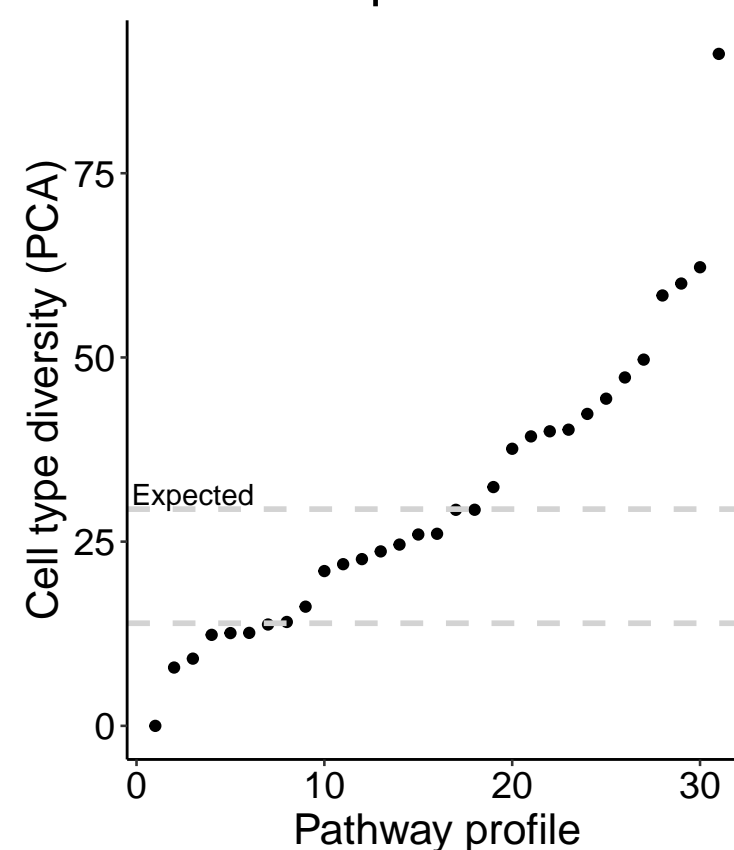
Global UMAP: Pathway ON



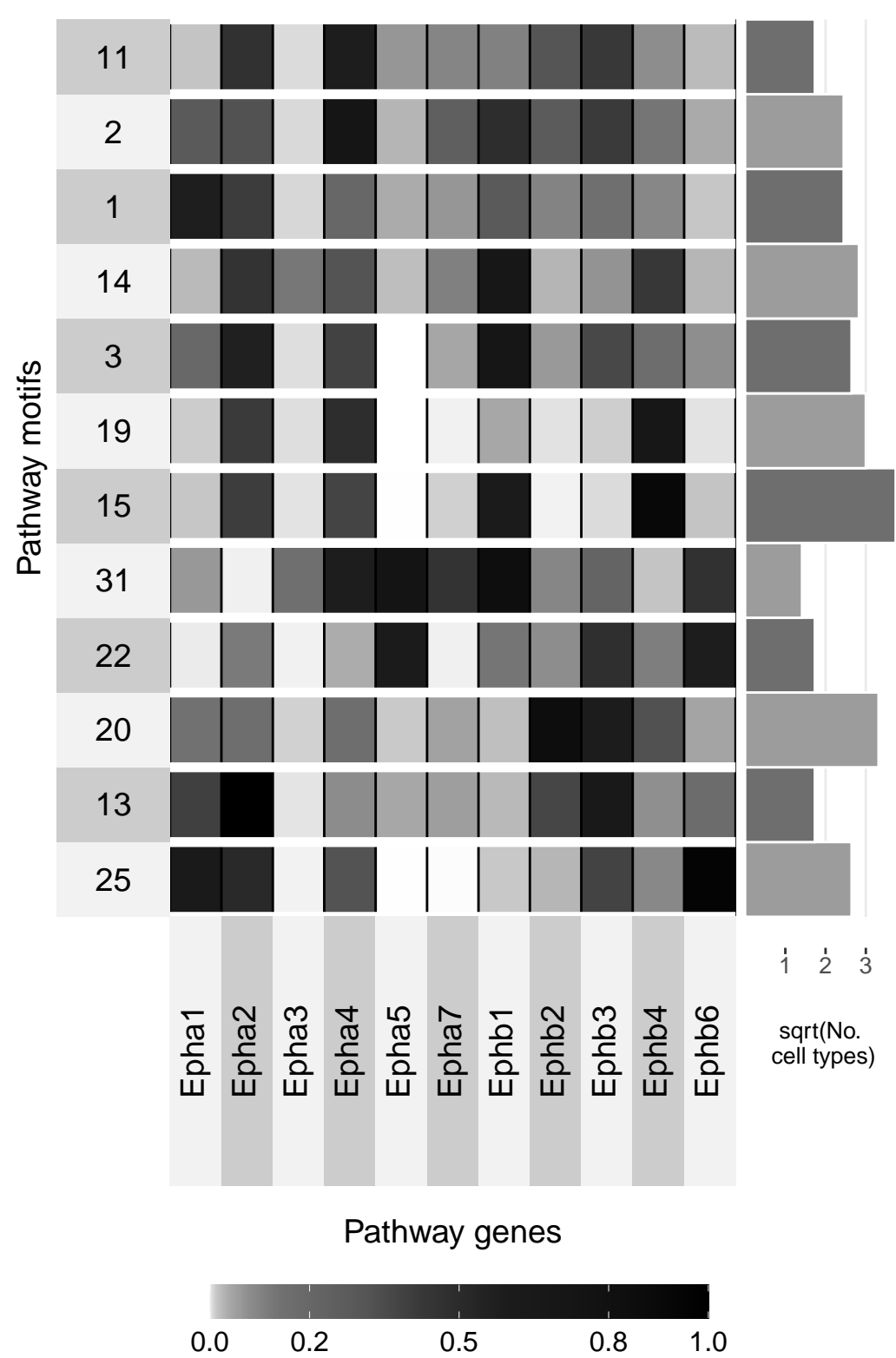
ECDF of Profile Dispersions



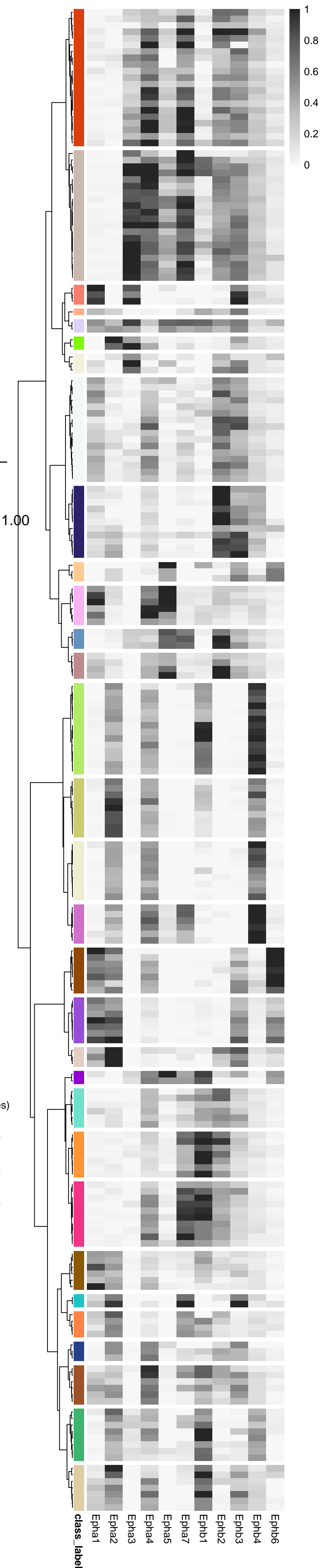
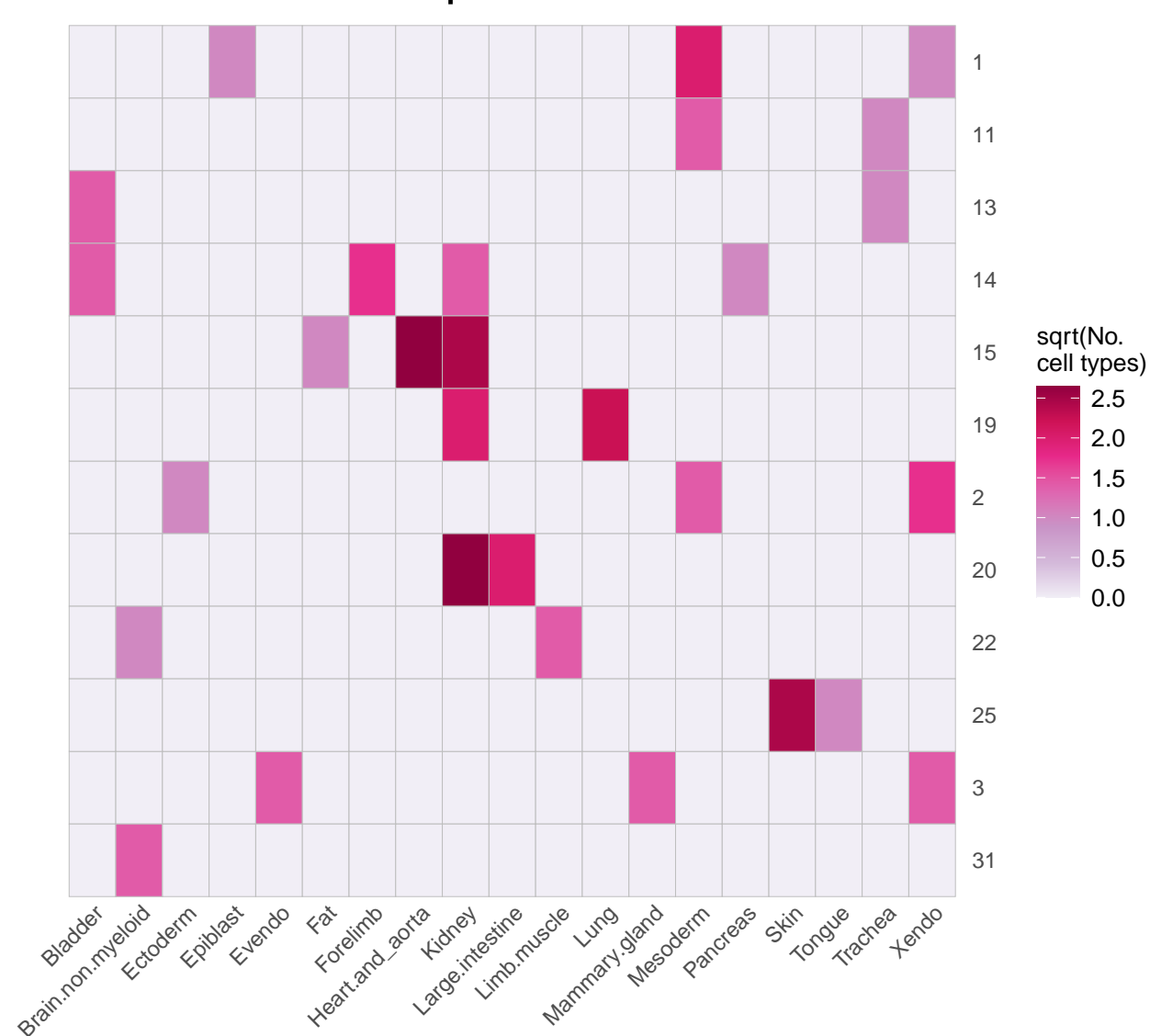
Profile Dispersion Plot



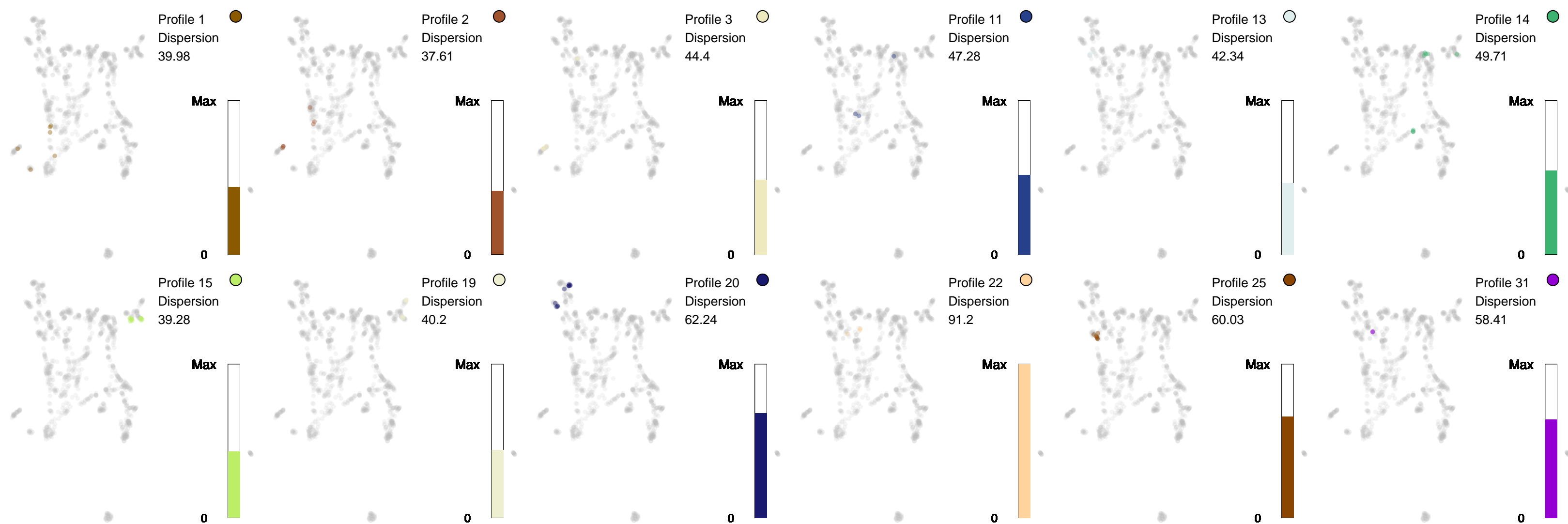
Motifs, Dispersion $\geq 90^{\text{th}}$ percentile



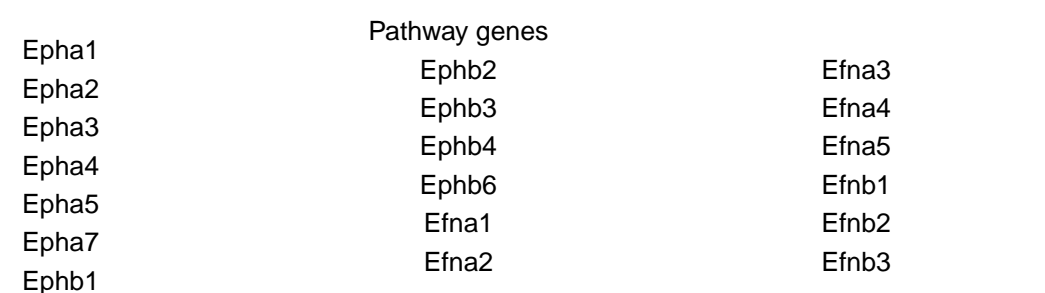
Motif Tissue Composition



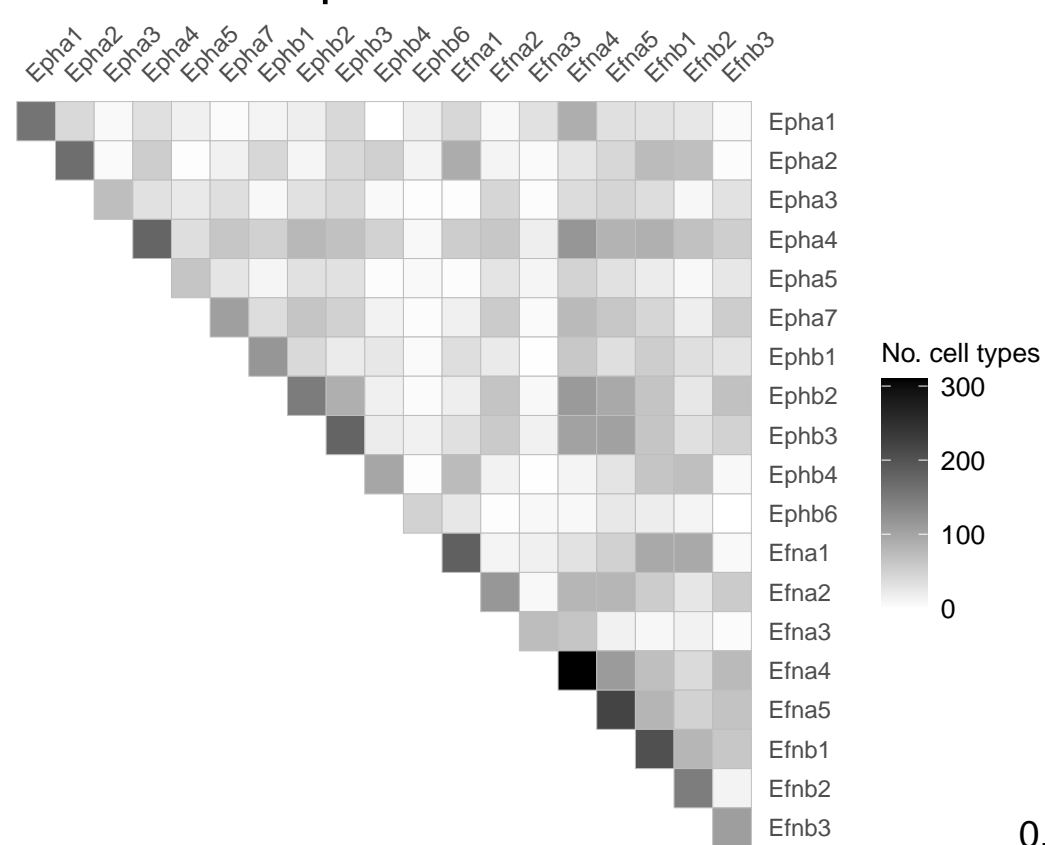
Eph A–B receptors (k_opt = 31)



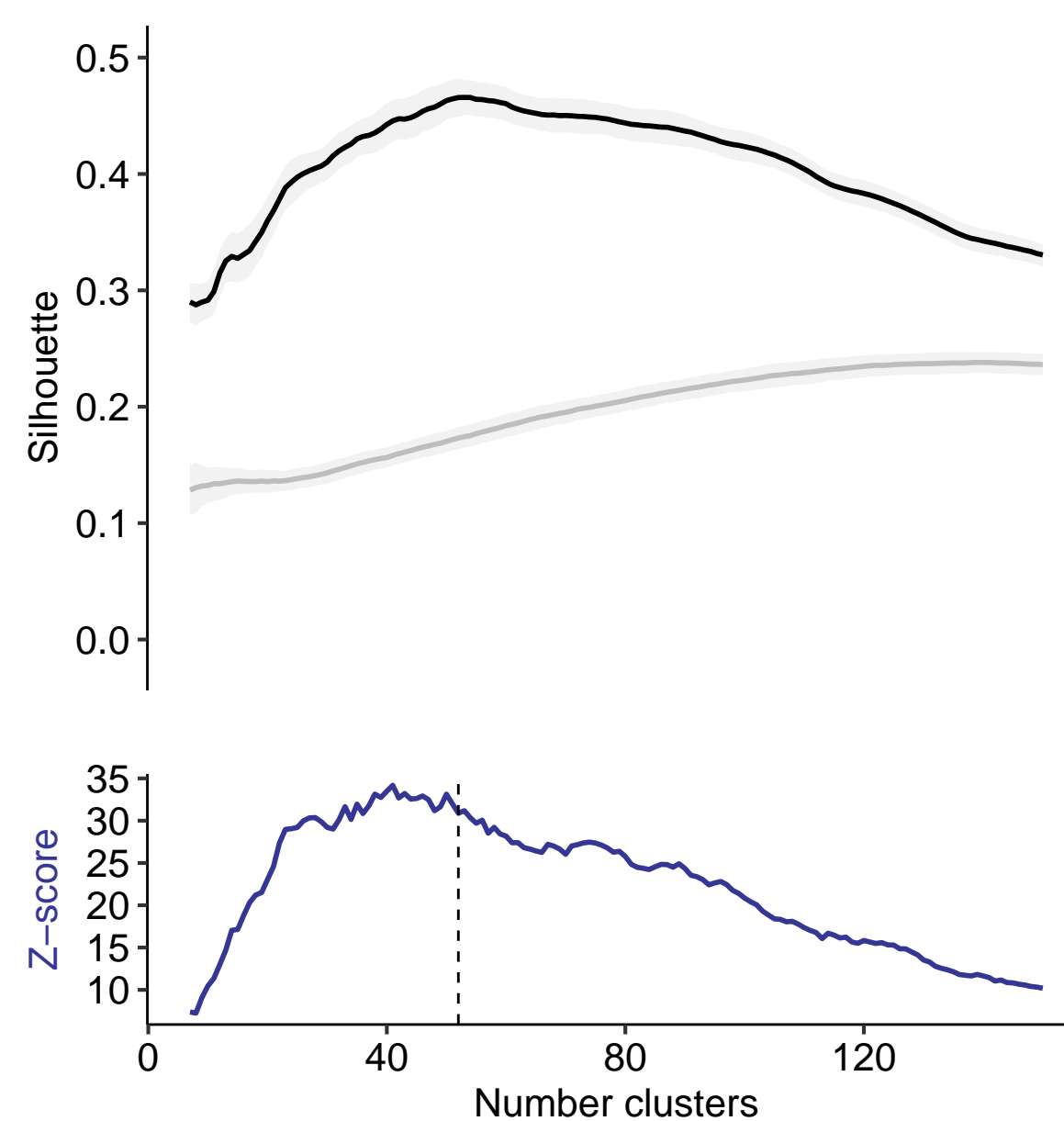
Eph receptors and ligands (k_opt = 52)



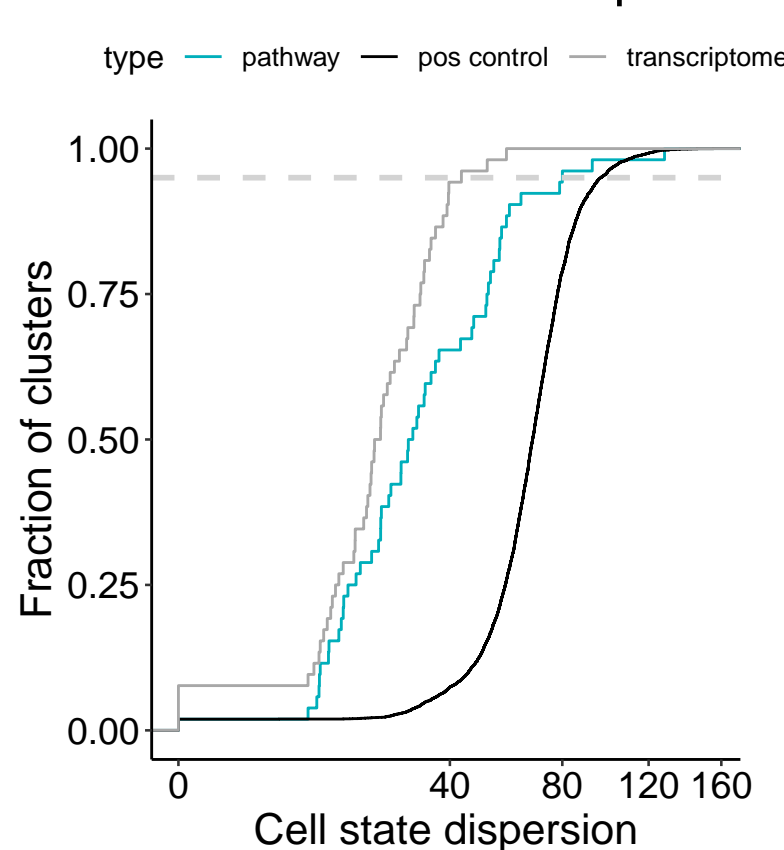
Gene Co-Expression Above Threshold



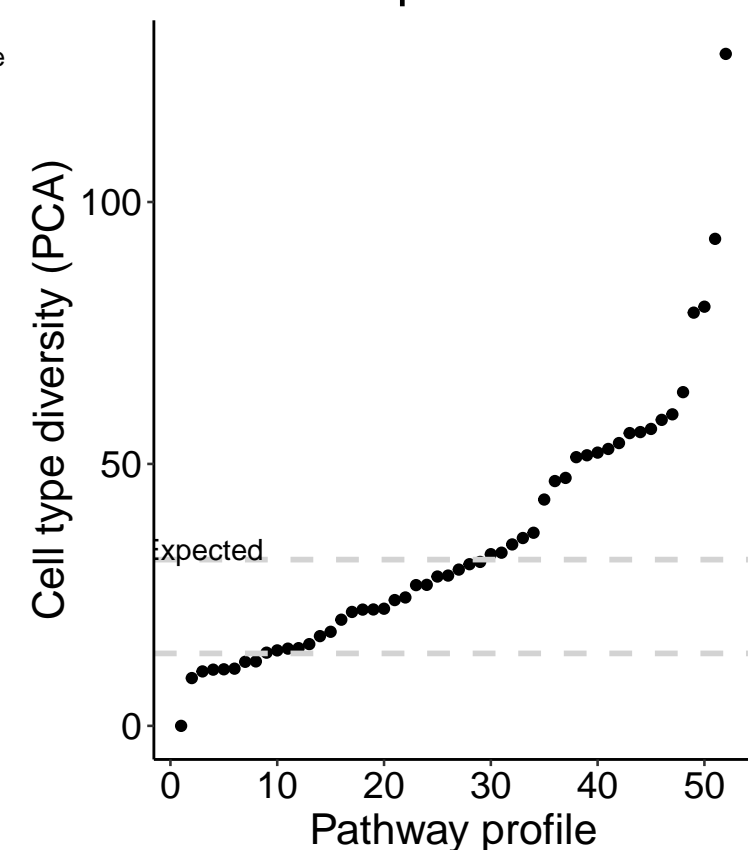
Silhouette and Z-score



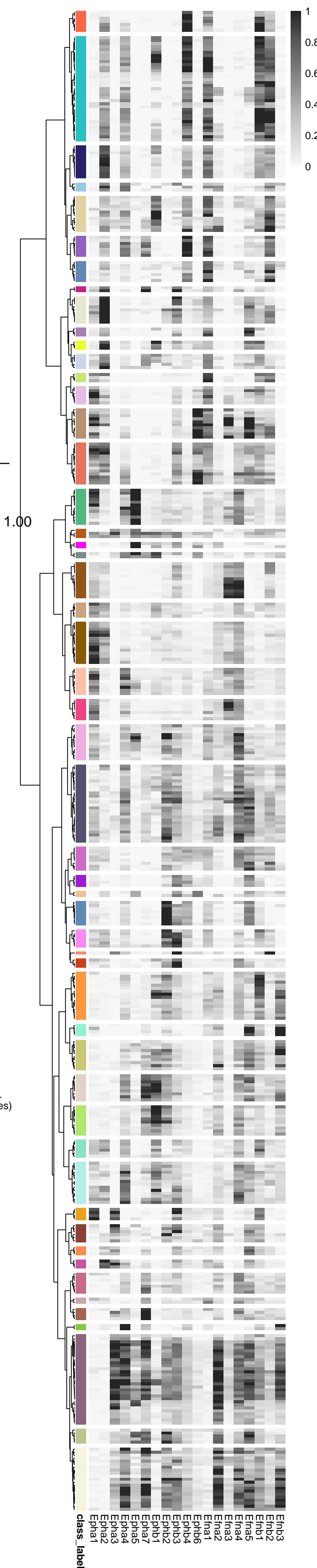
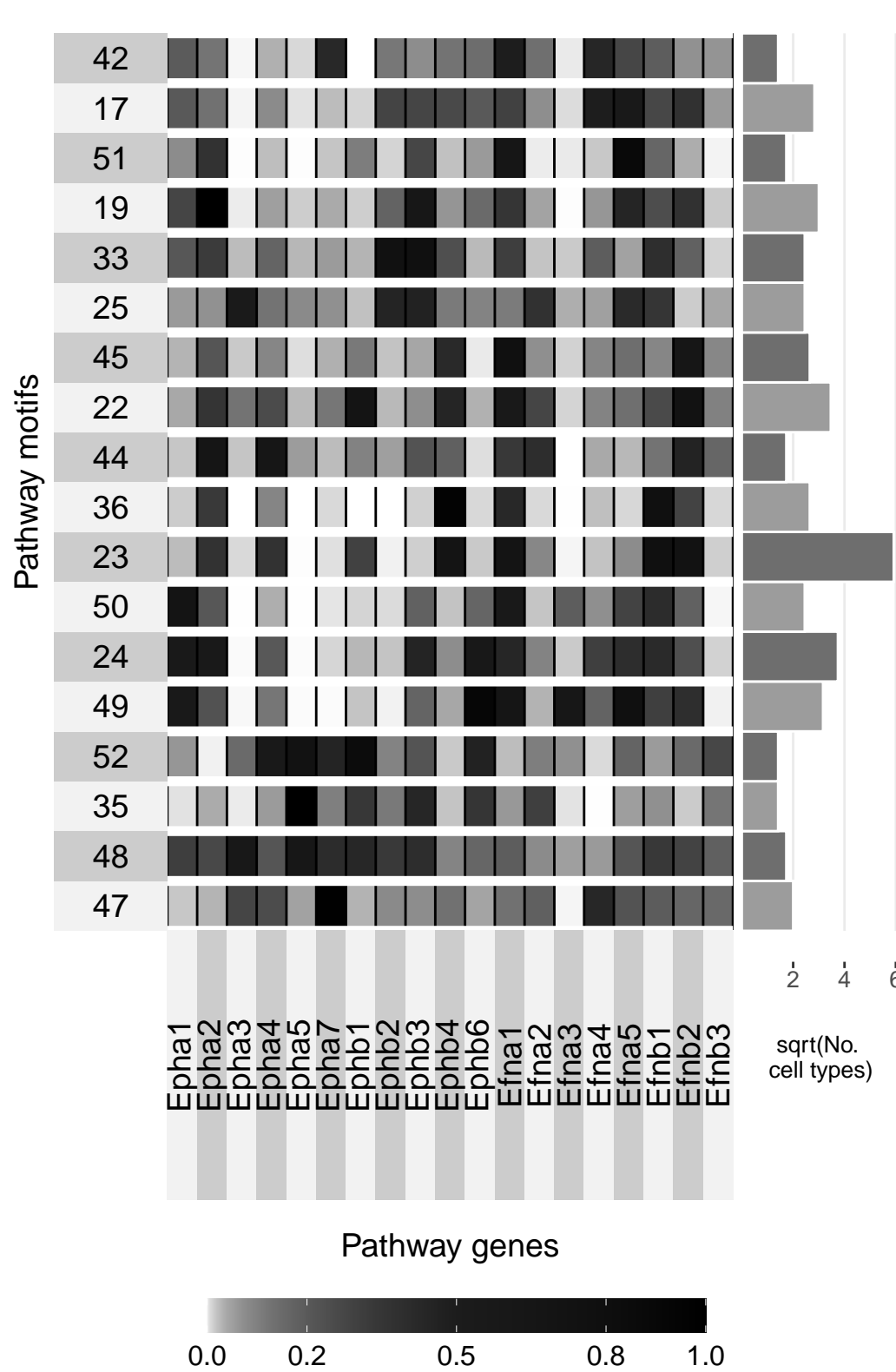
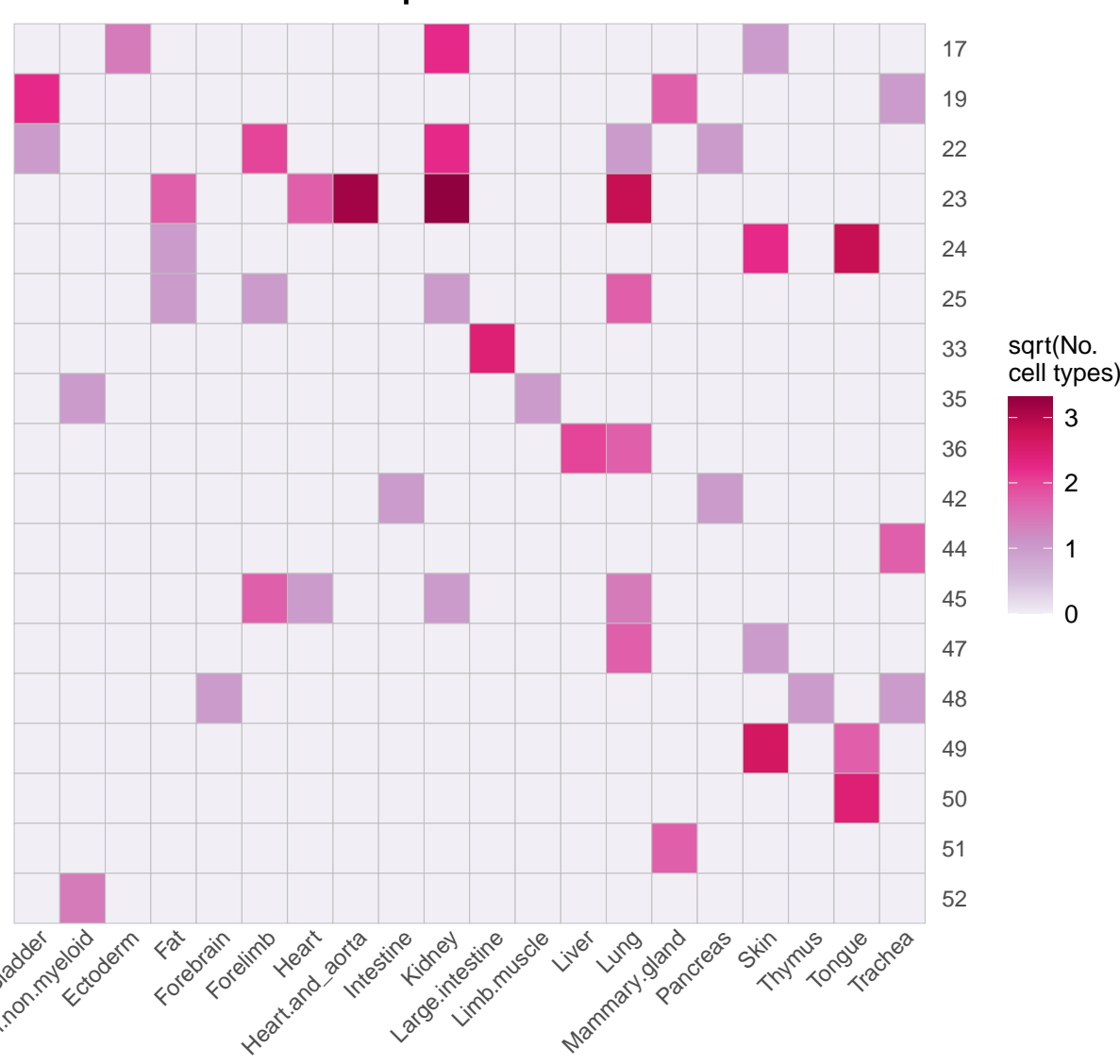
Profile Dispersions



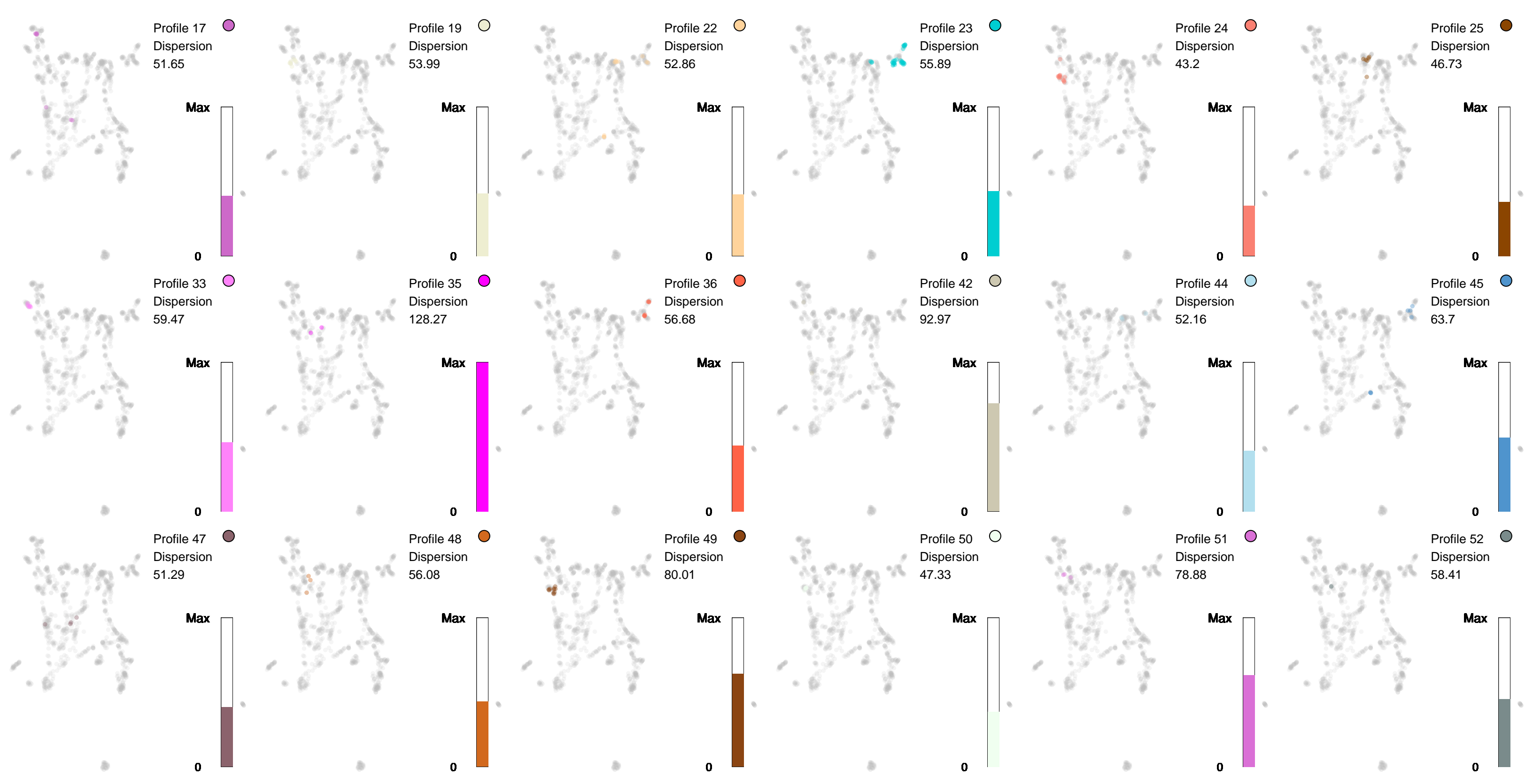
Profile Dispersion Plot



Motif Tissue Composition



Eph receptors and ligands (k_opt = 52)



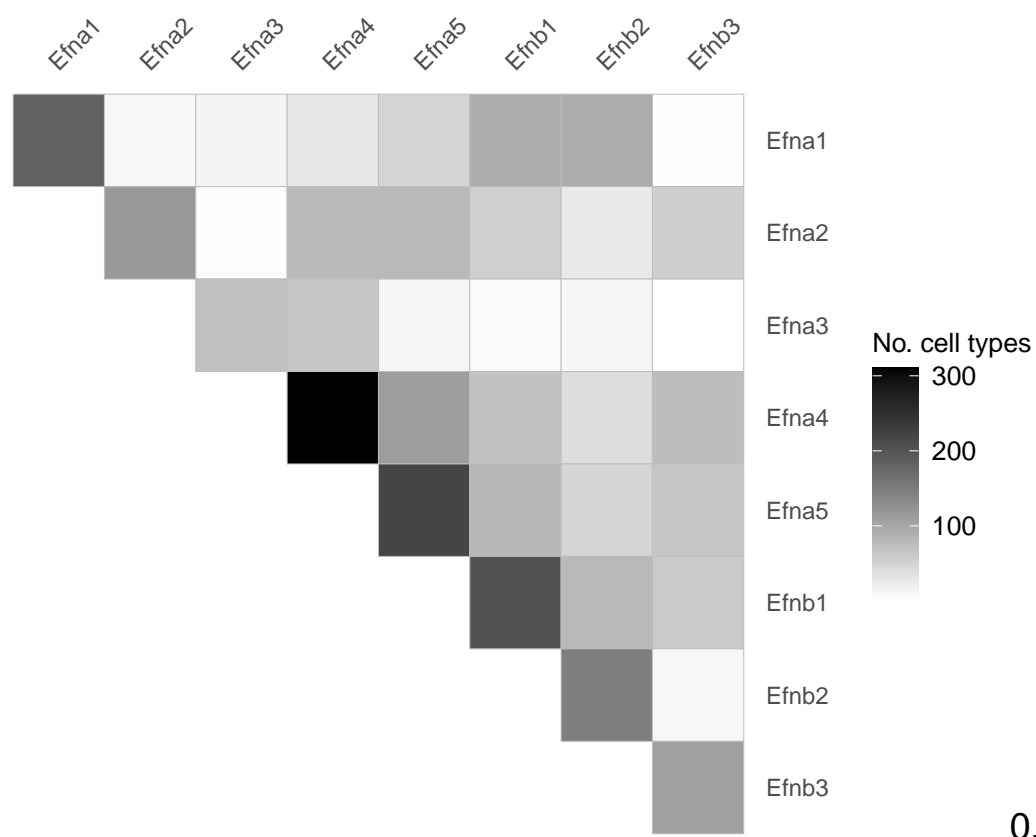
Eph_I (k_opt = 16)

Efna1
Efna2
Efna3

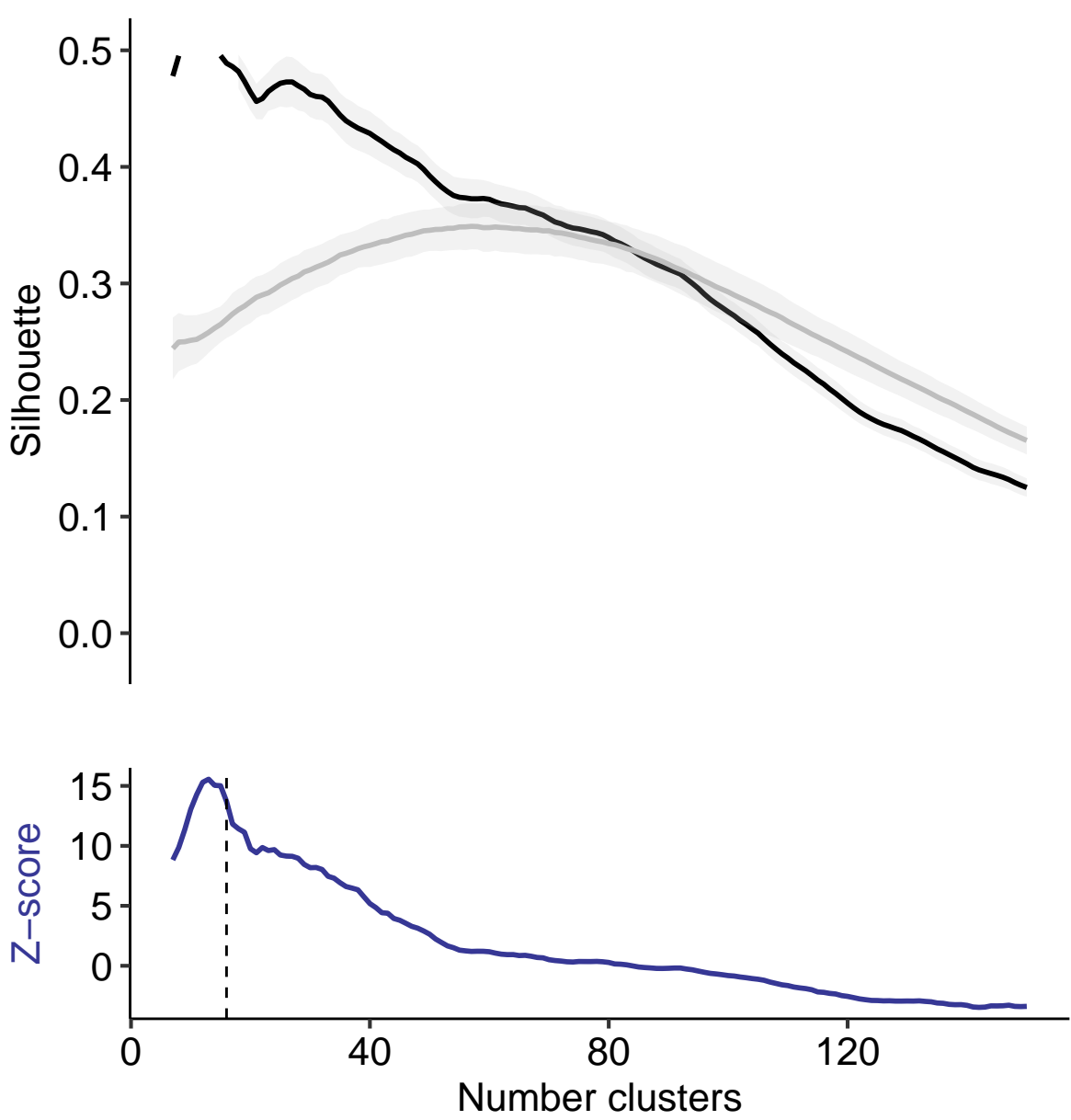
Pathway genes
Efna4
Efna5

Efnb1
Efnb2
Efnb3

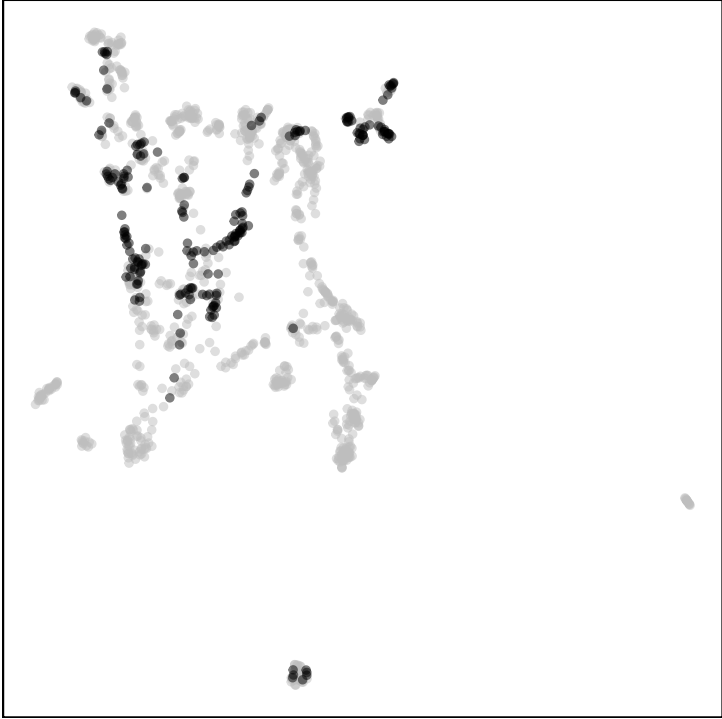
Gene Co-Expression Above Threshold



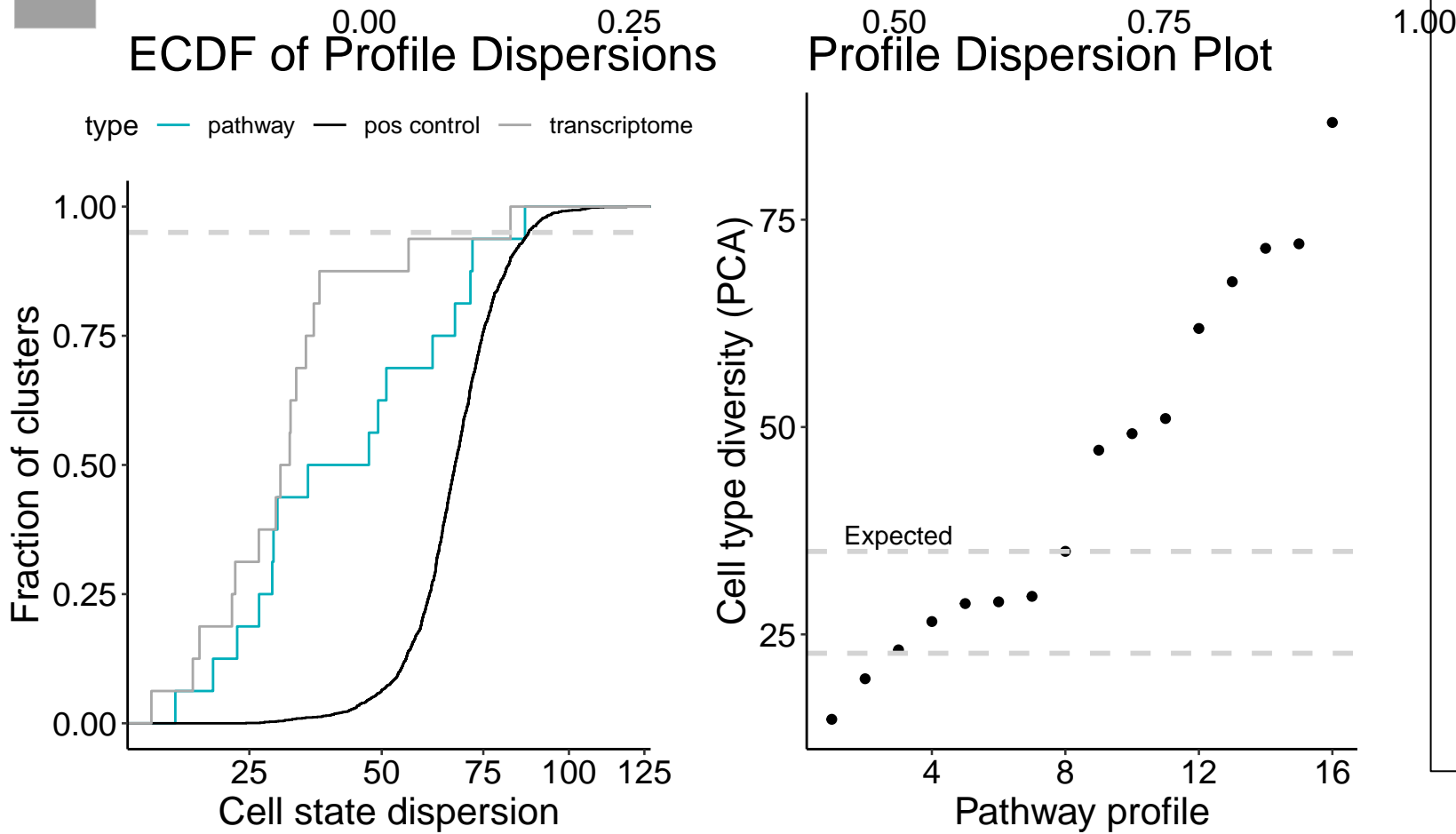
Silhouette and Z-score



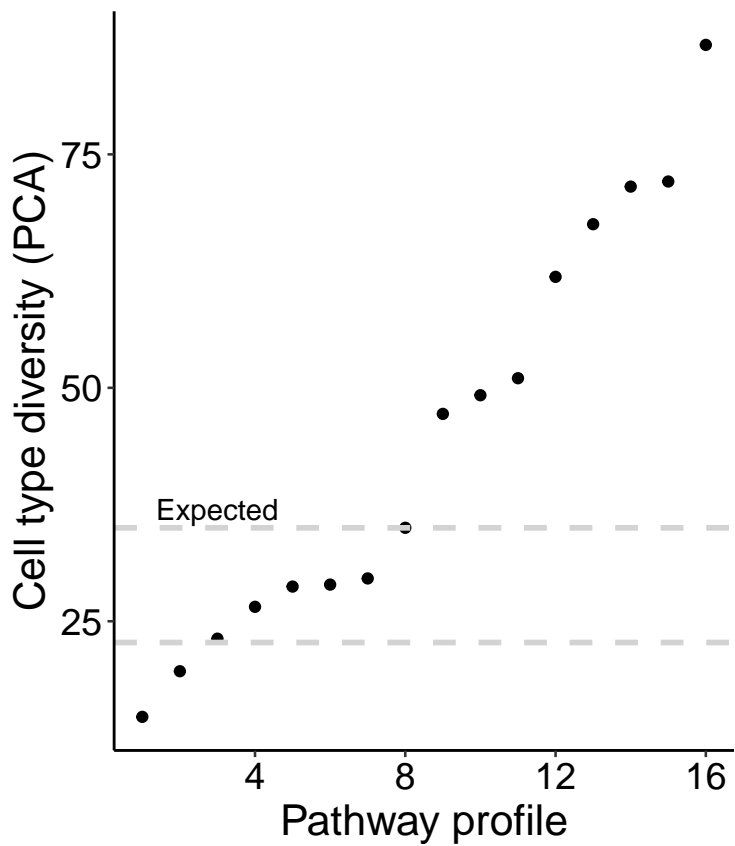
Global UMAP: Pathway ON



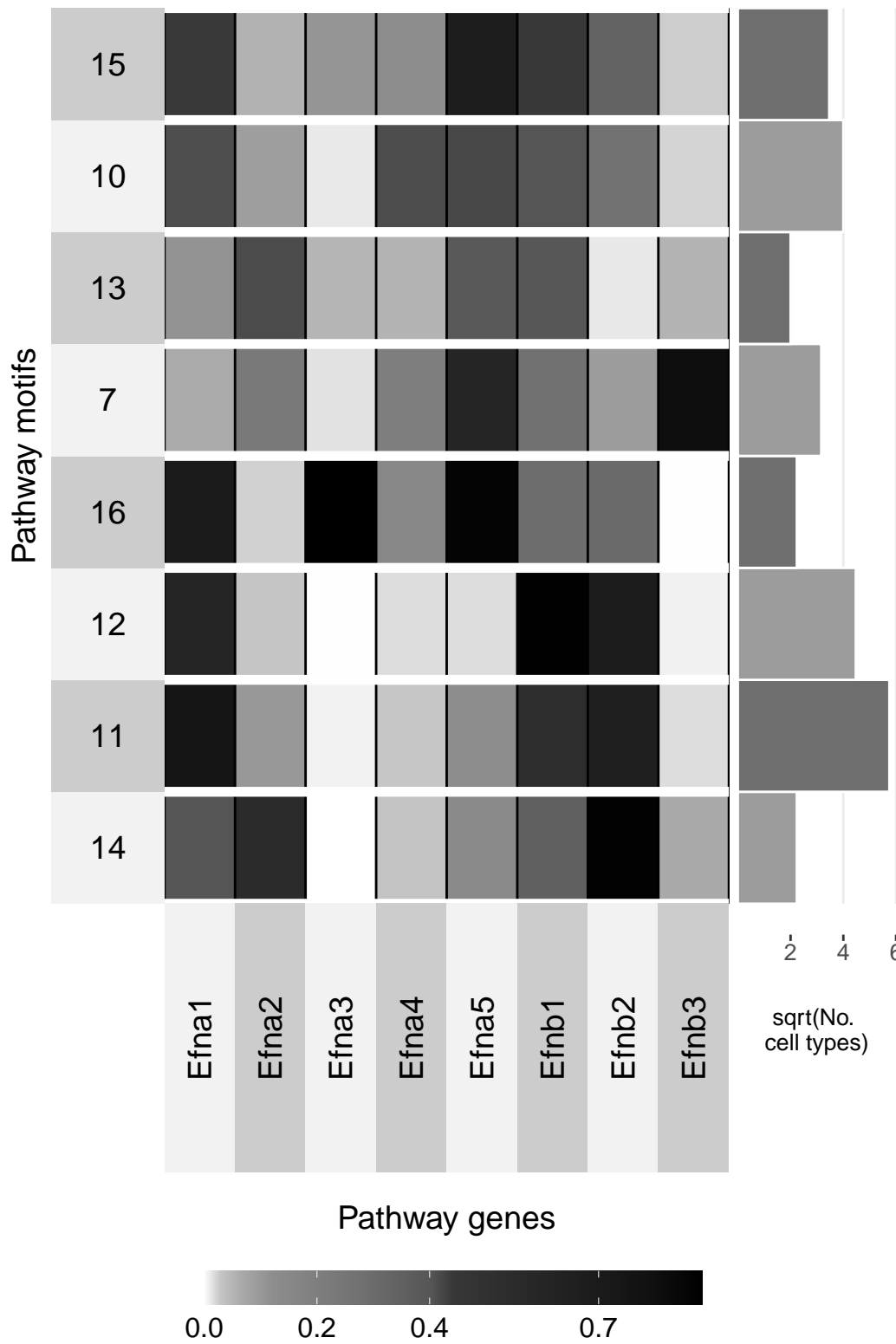
ECDF of Profile Dispersions



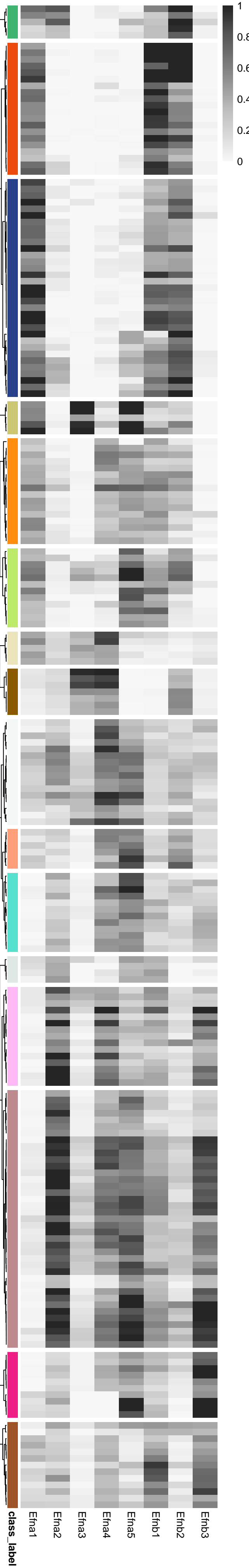
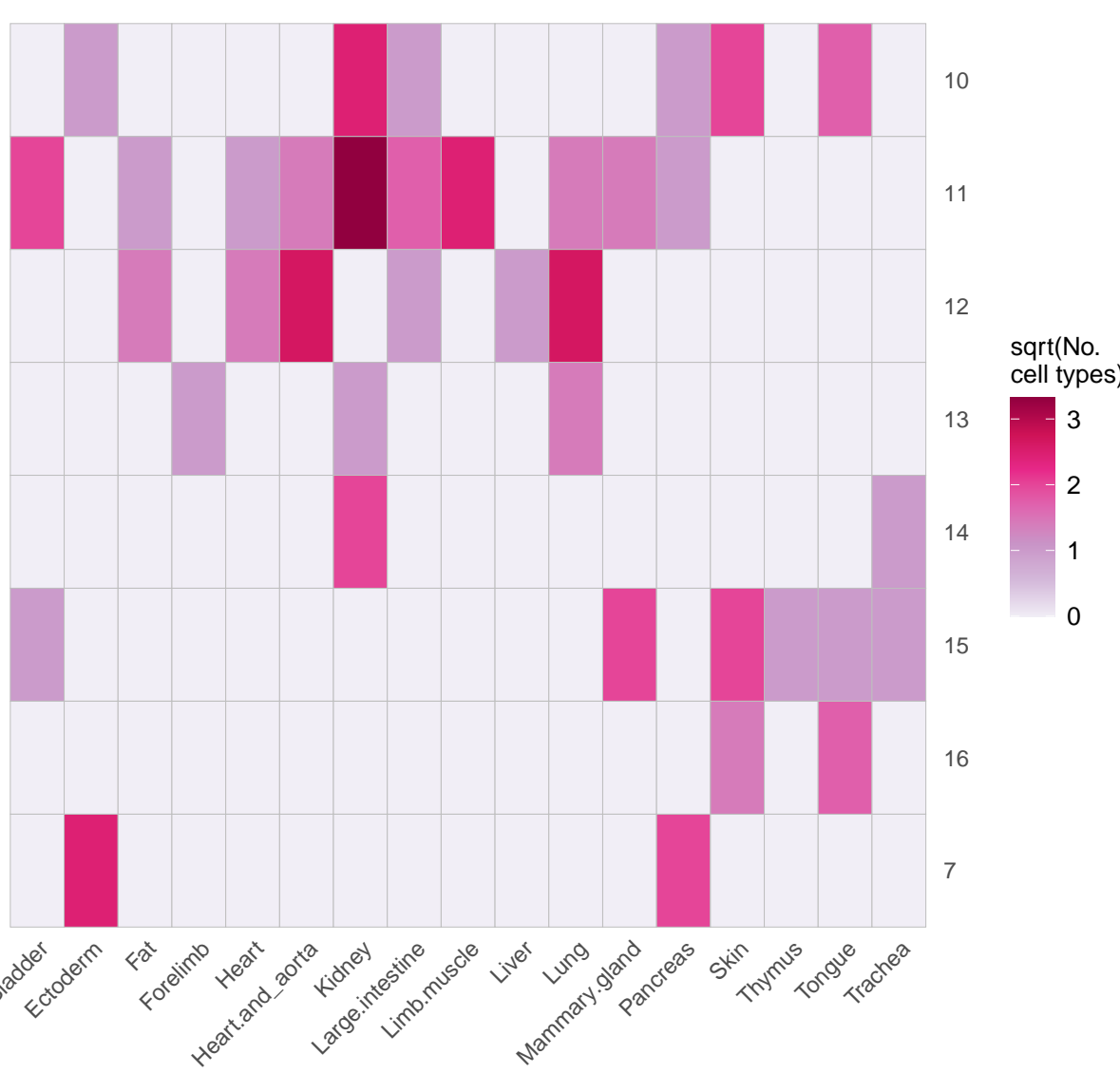
Profile Dispersion Plot



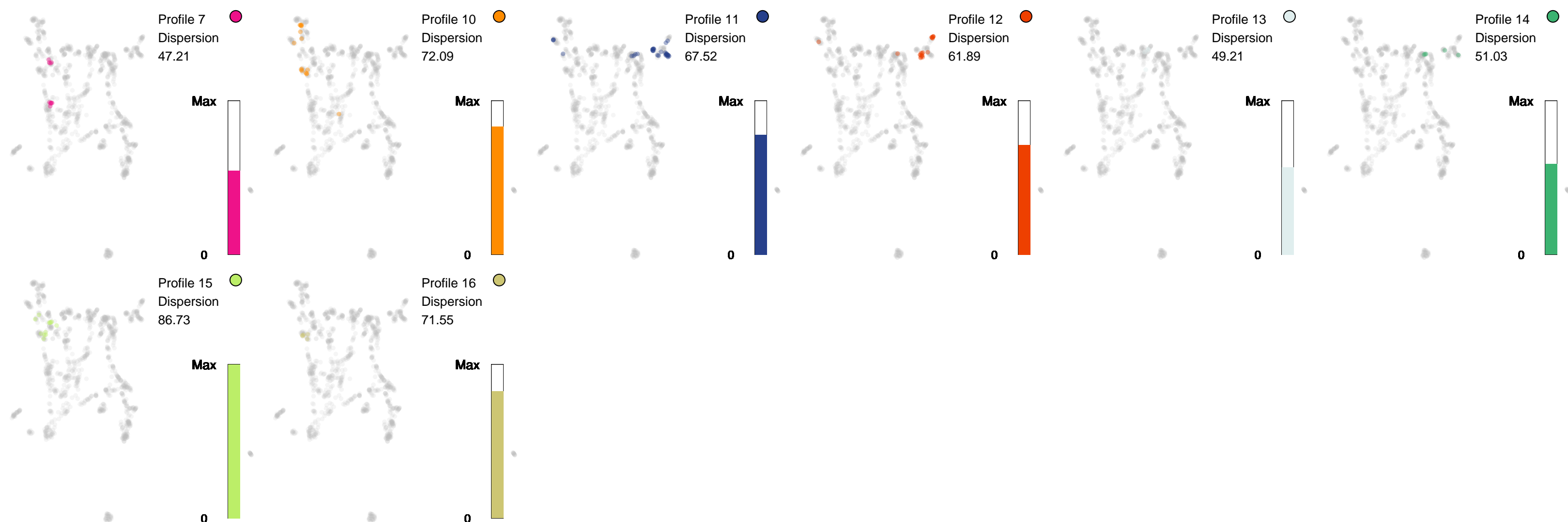
Motifs, Dispersion $\geq 90^{\text{th}}$ percentile



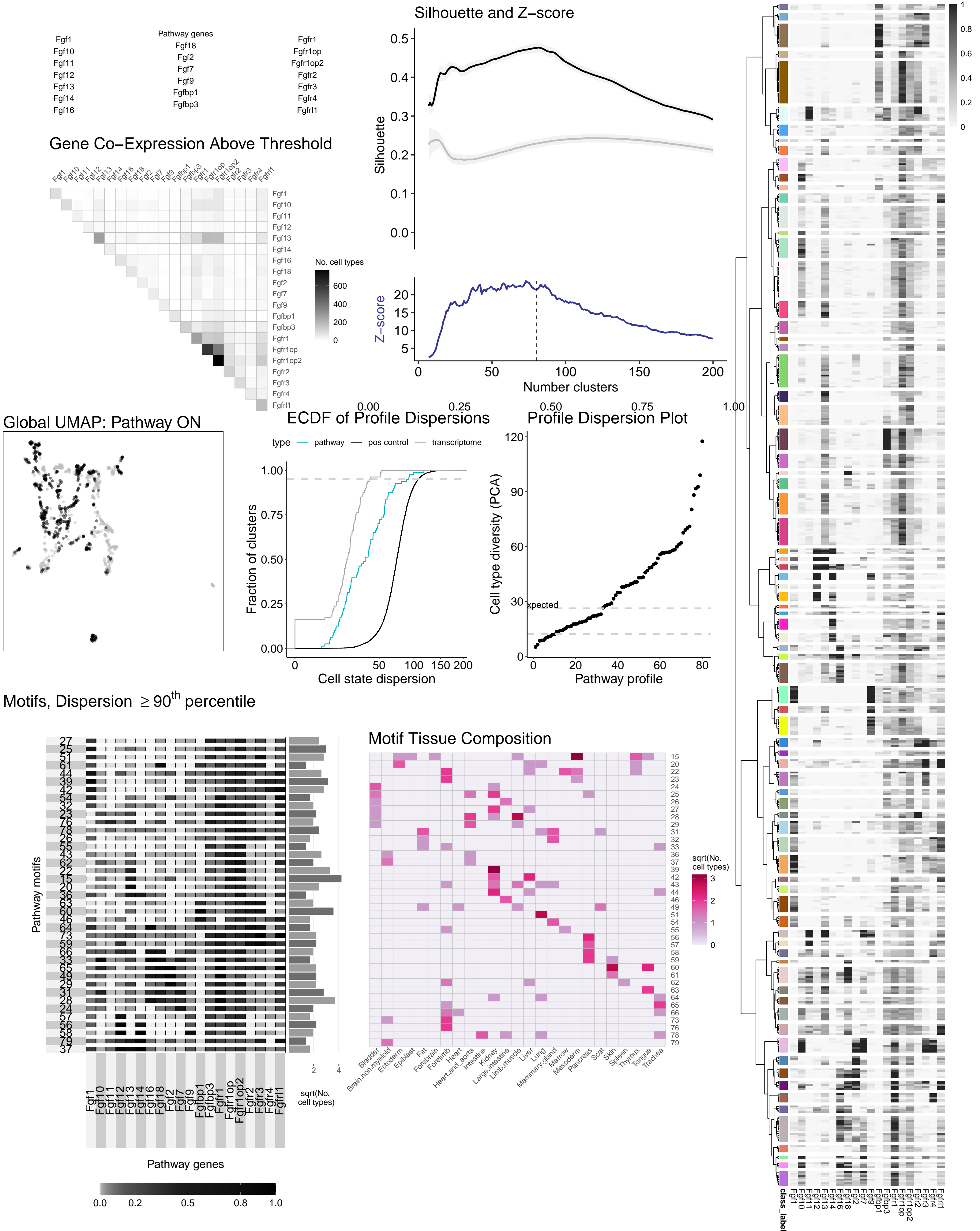
Motif Tissue Composition



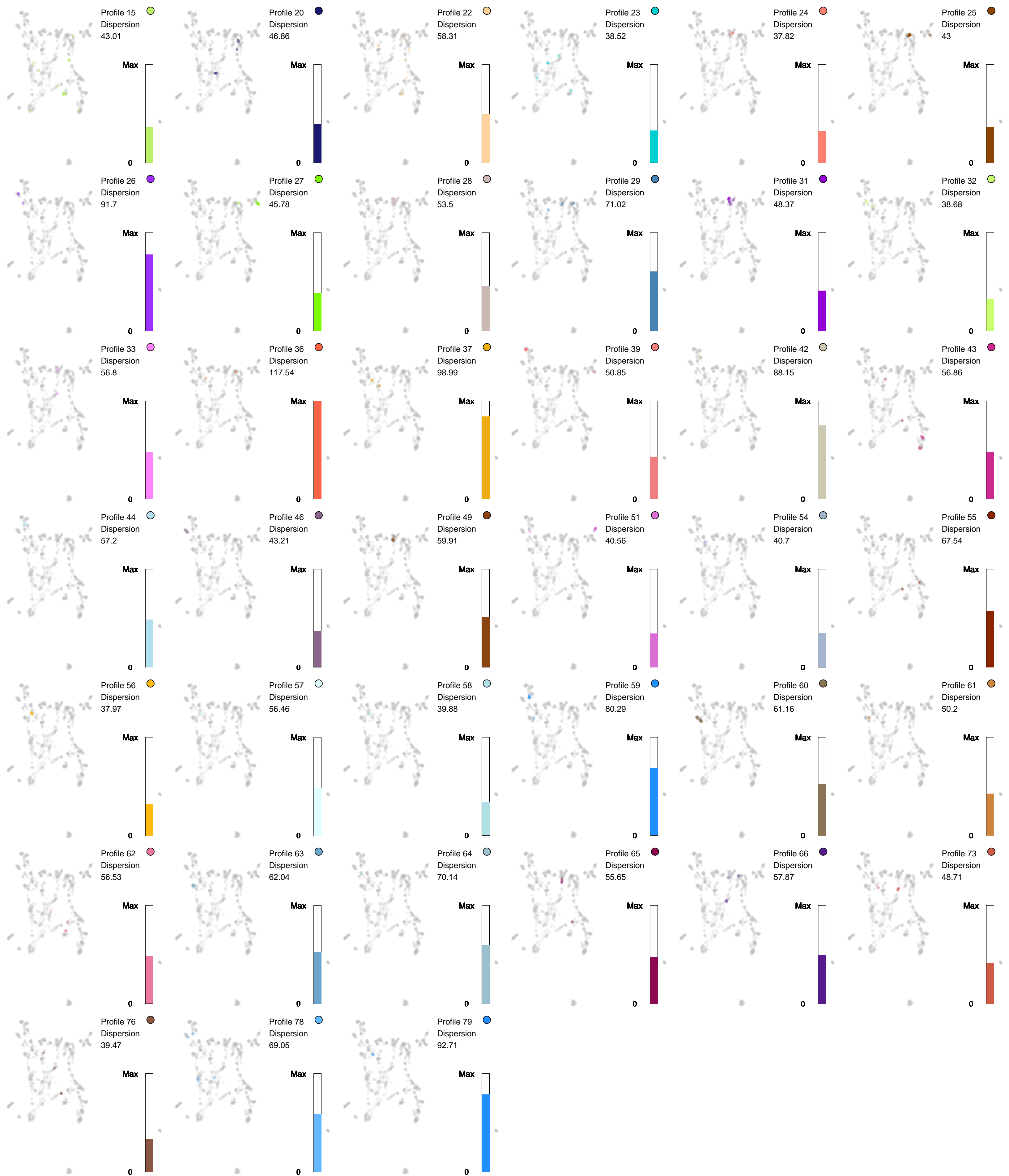
Eph_I (k_opt = 16)



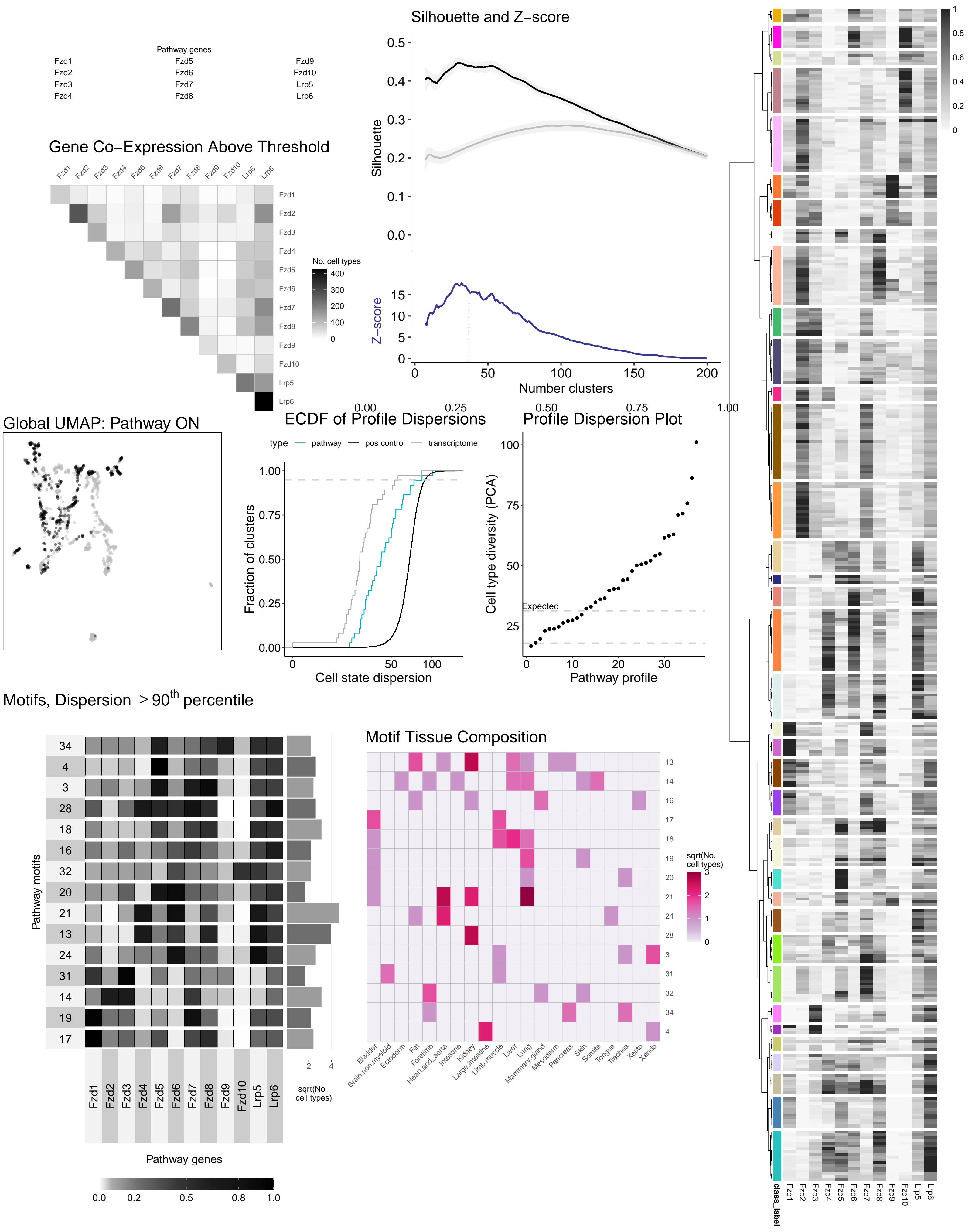
FGF cell signaling proteins (k_opt = 80)



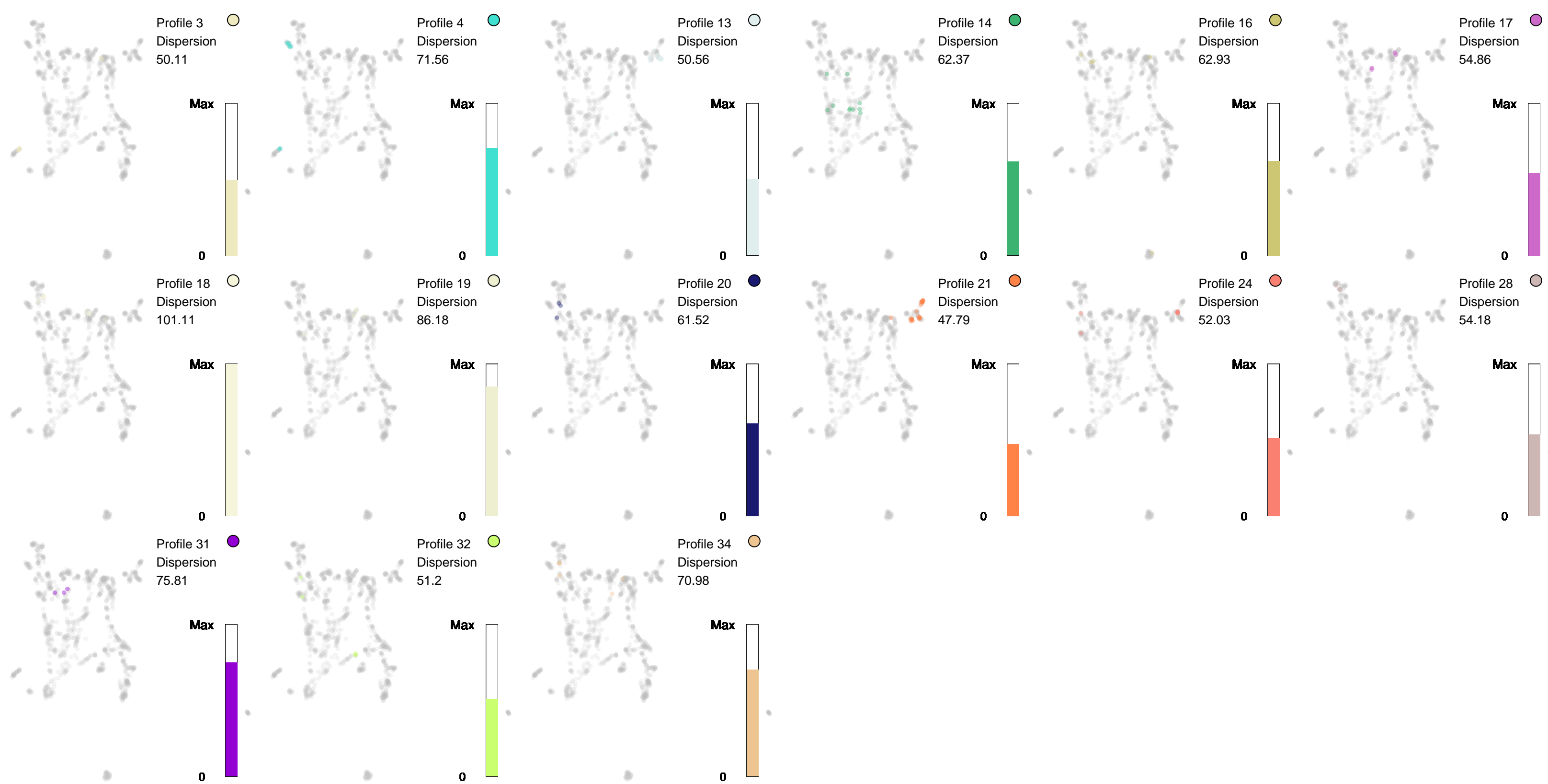
FGF cell signaling proteins (k_opt = 80)



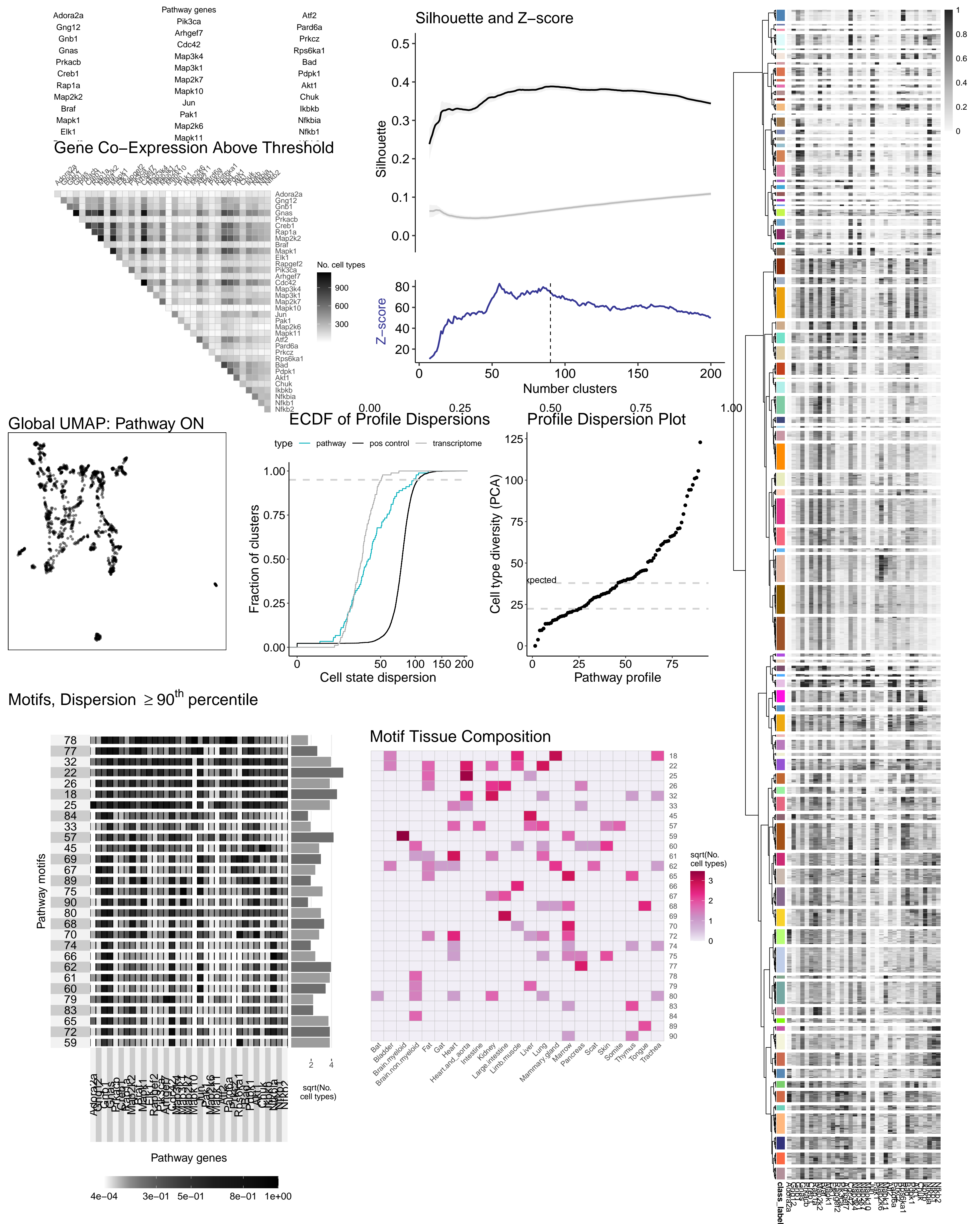
Frizzled and Lrp5 6 receptors for Wnt B Catenin Signaling (k_opt = 37)



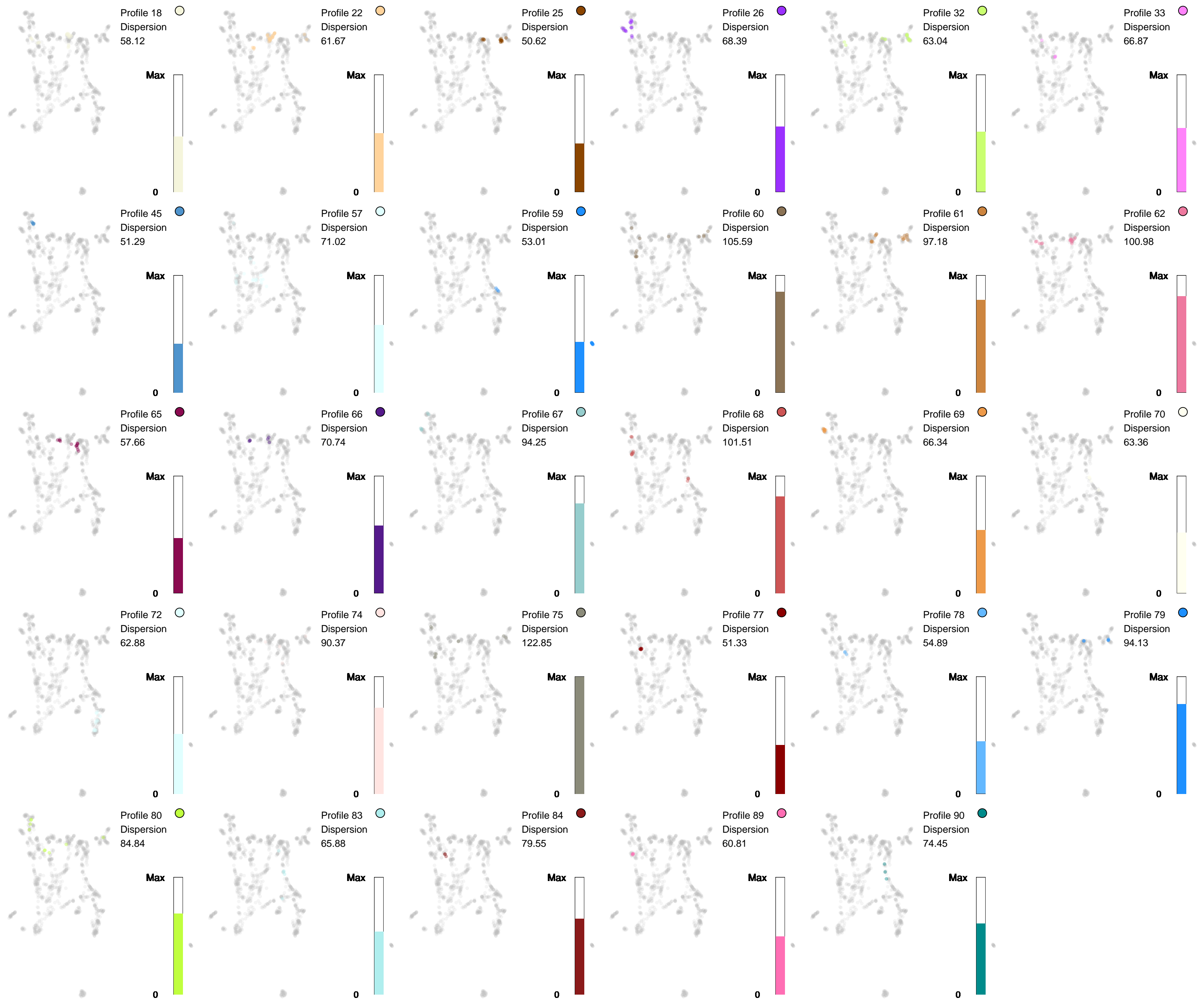
Frizzled and Lrp5 6 receptors for Wnt B Catenin Signaling (k_opt = 37)



Cellular Signalling Through Adenosine Receptor A2a and Adenosine (k_opt =



Cellular Signalling Through Adenosine Receptor A2a and Adenosine (k_opt =



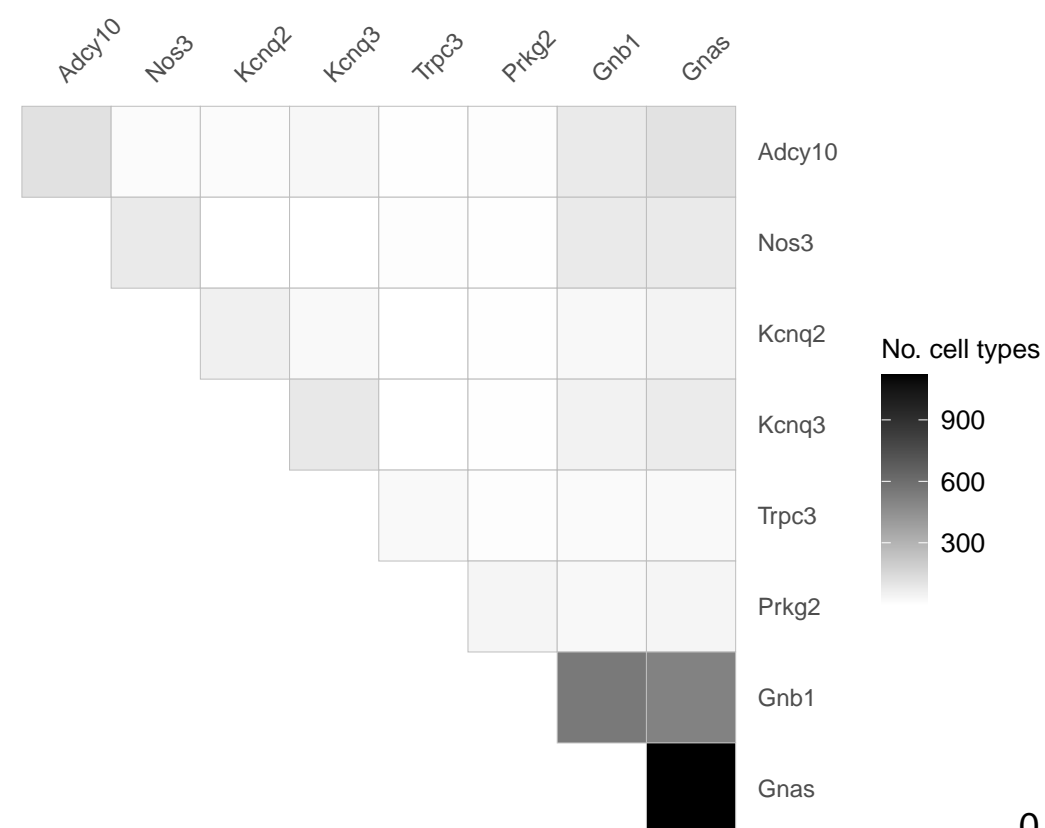
Ion Channels and Their Functional Role in Vascular Endothelium (k_opt = 32)

Adcy10
Nos3
Kcnq2

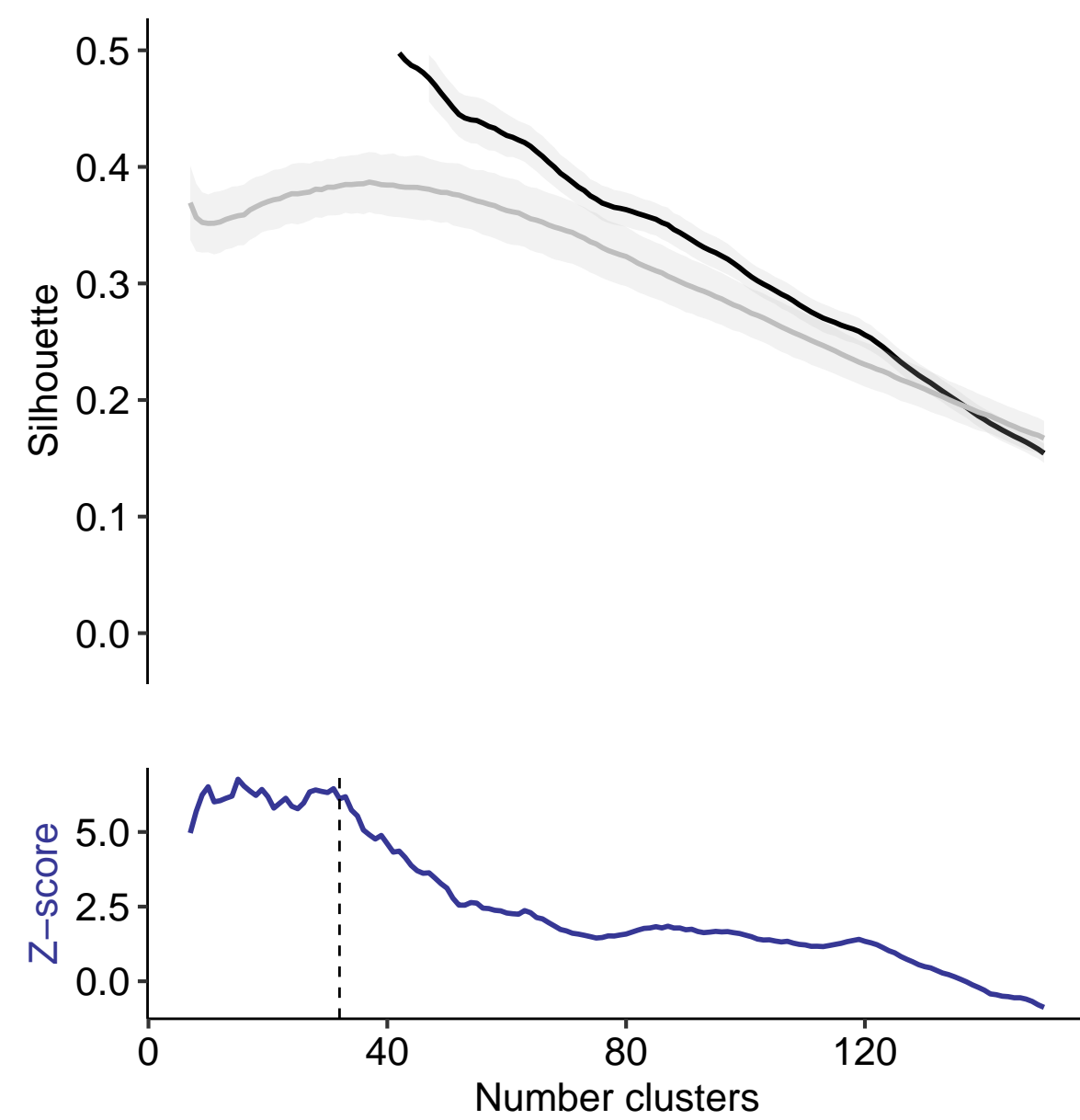
Pathway genes
Kcnq3
Trpc3

Prkg2
Gnb1
Gnas

Gene Co-Expression Above Threshold



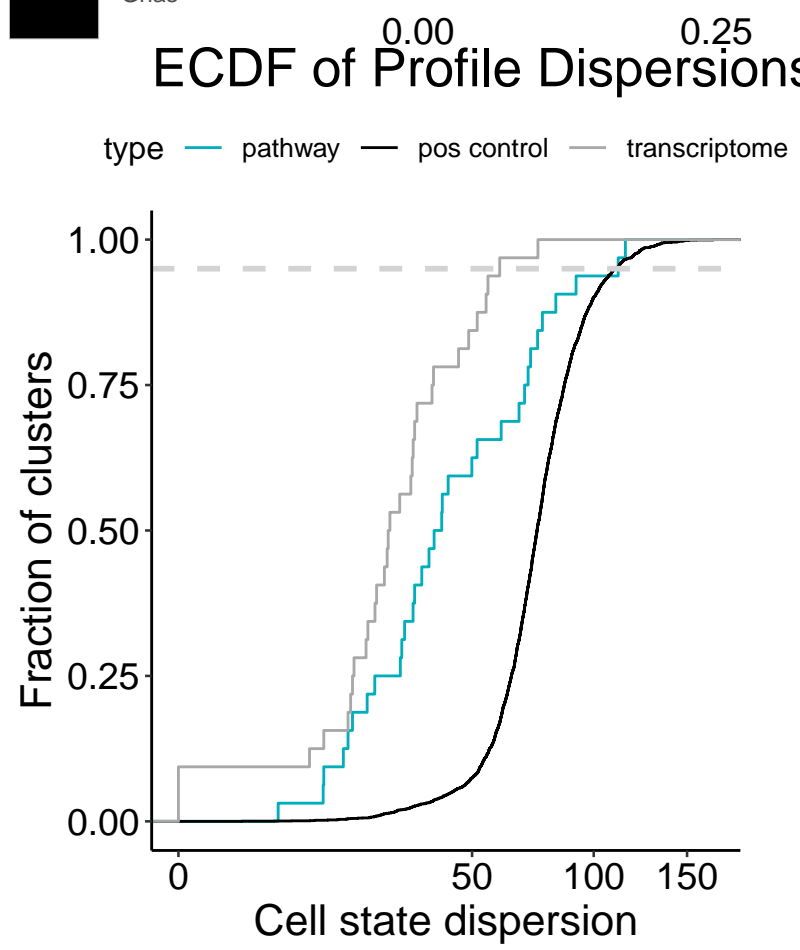
Silhouette and Z-score



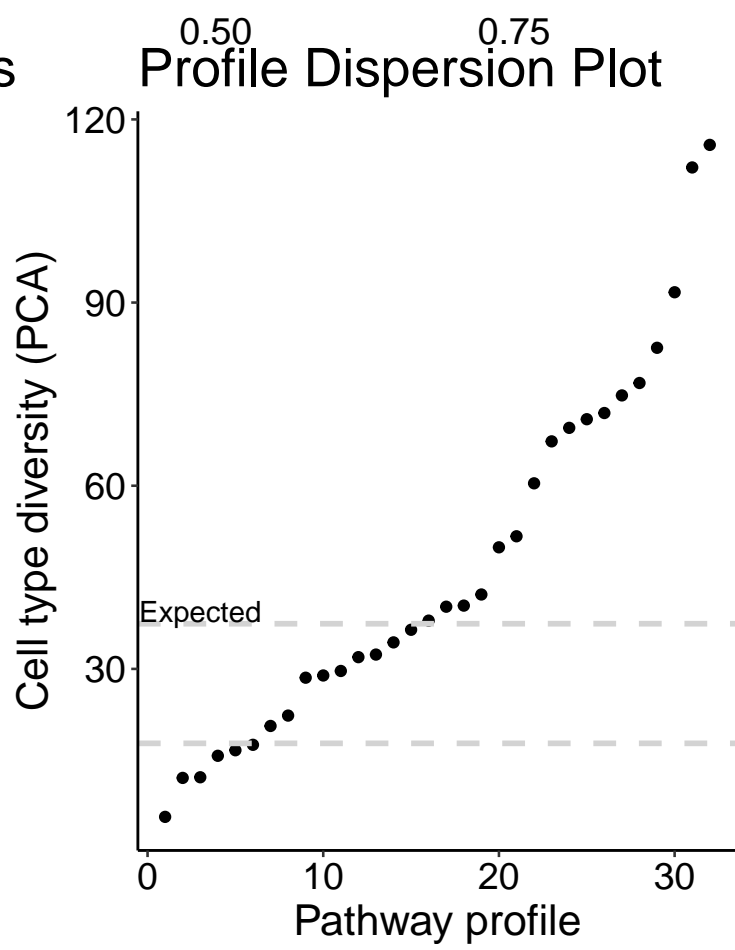
Global UMAP: Pathway ON



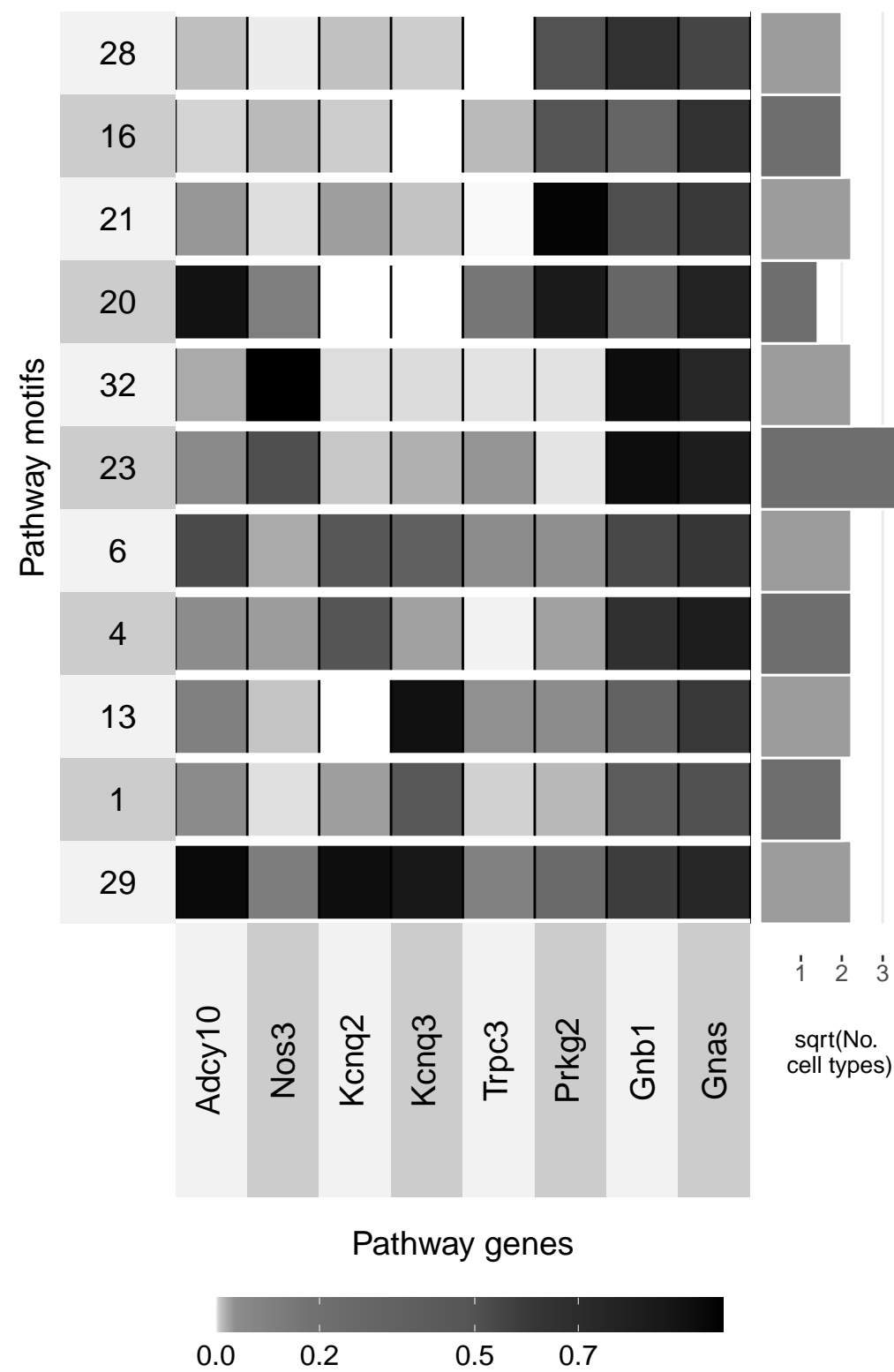
ECDF of Profile Dispersions



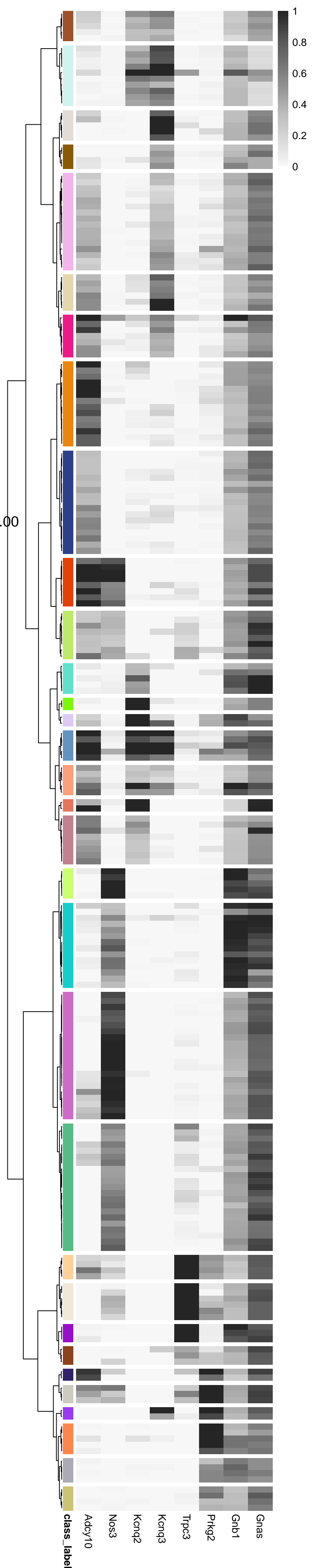
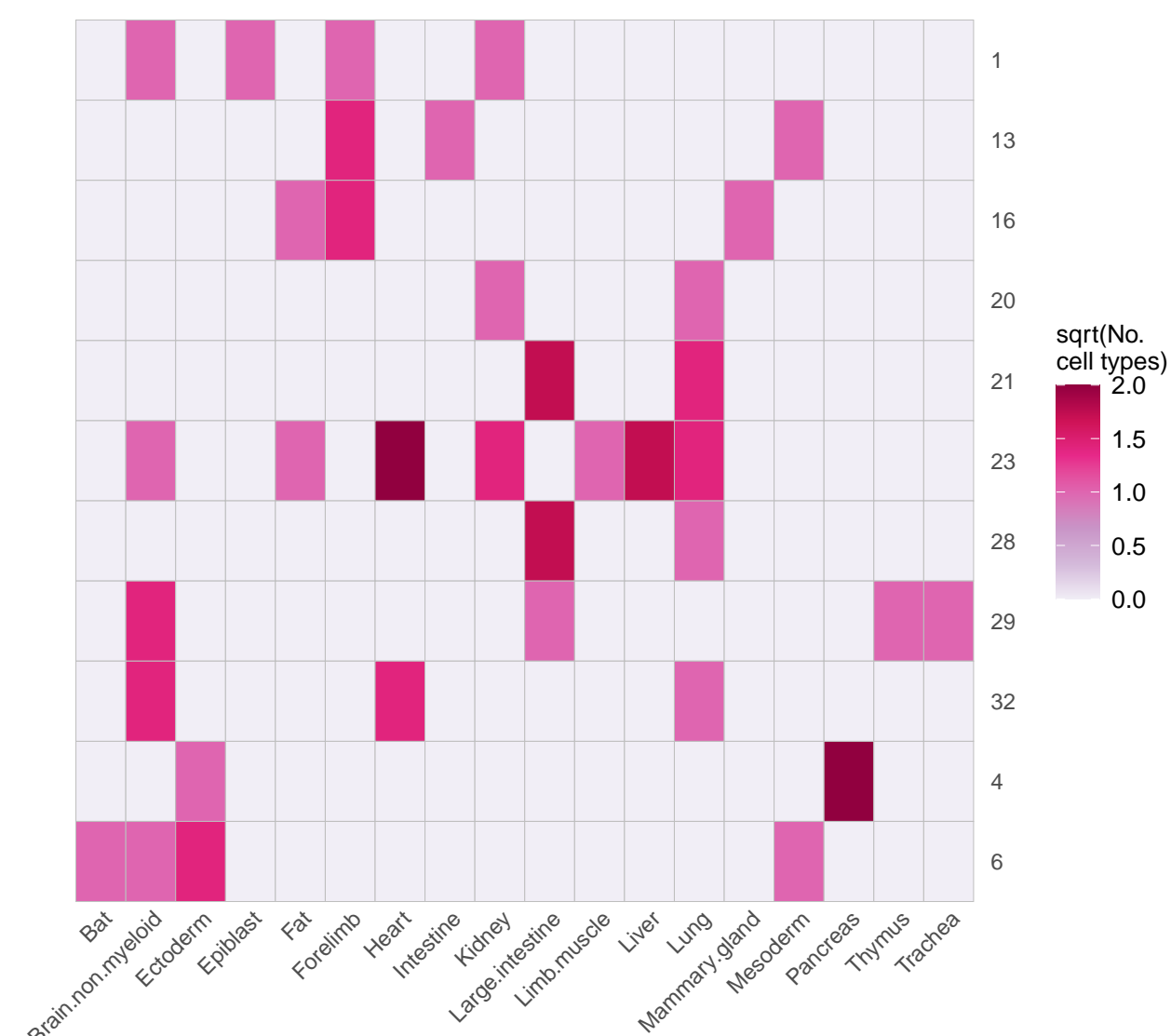
Profile Dispersion Plot



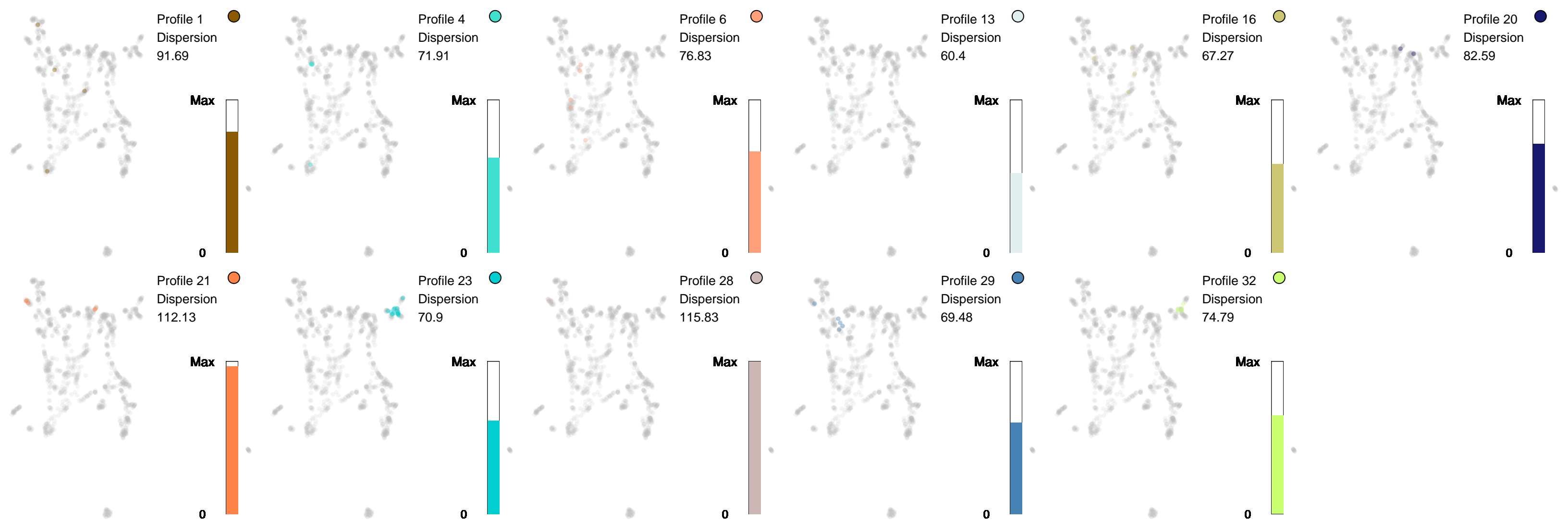
Motifs, Dispersion $\geq 90^{\text{th}}$ percentile



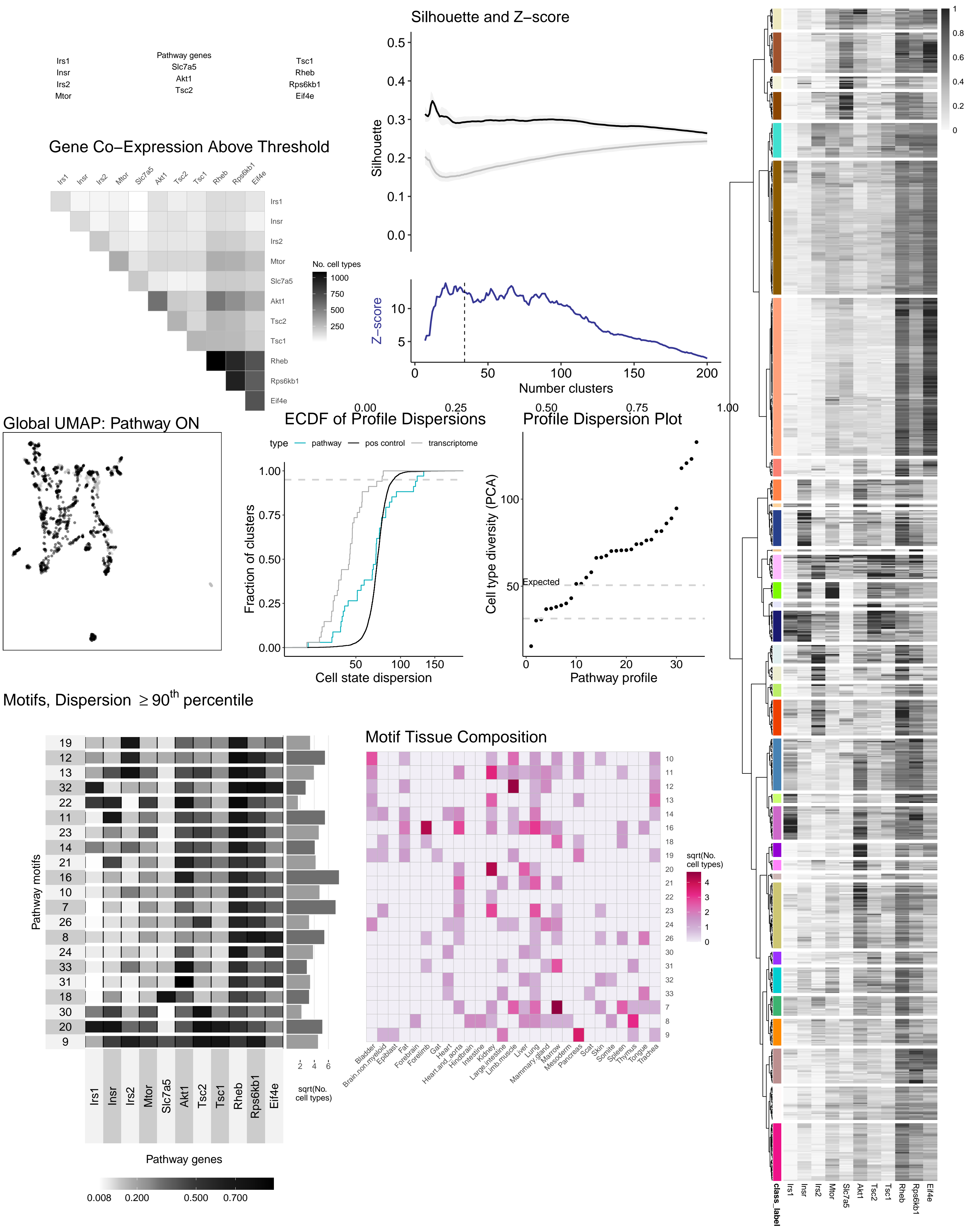
Motif Tissue Composition



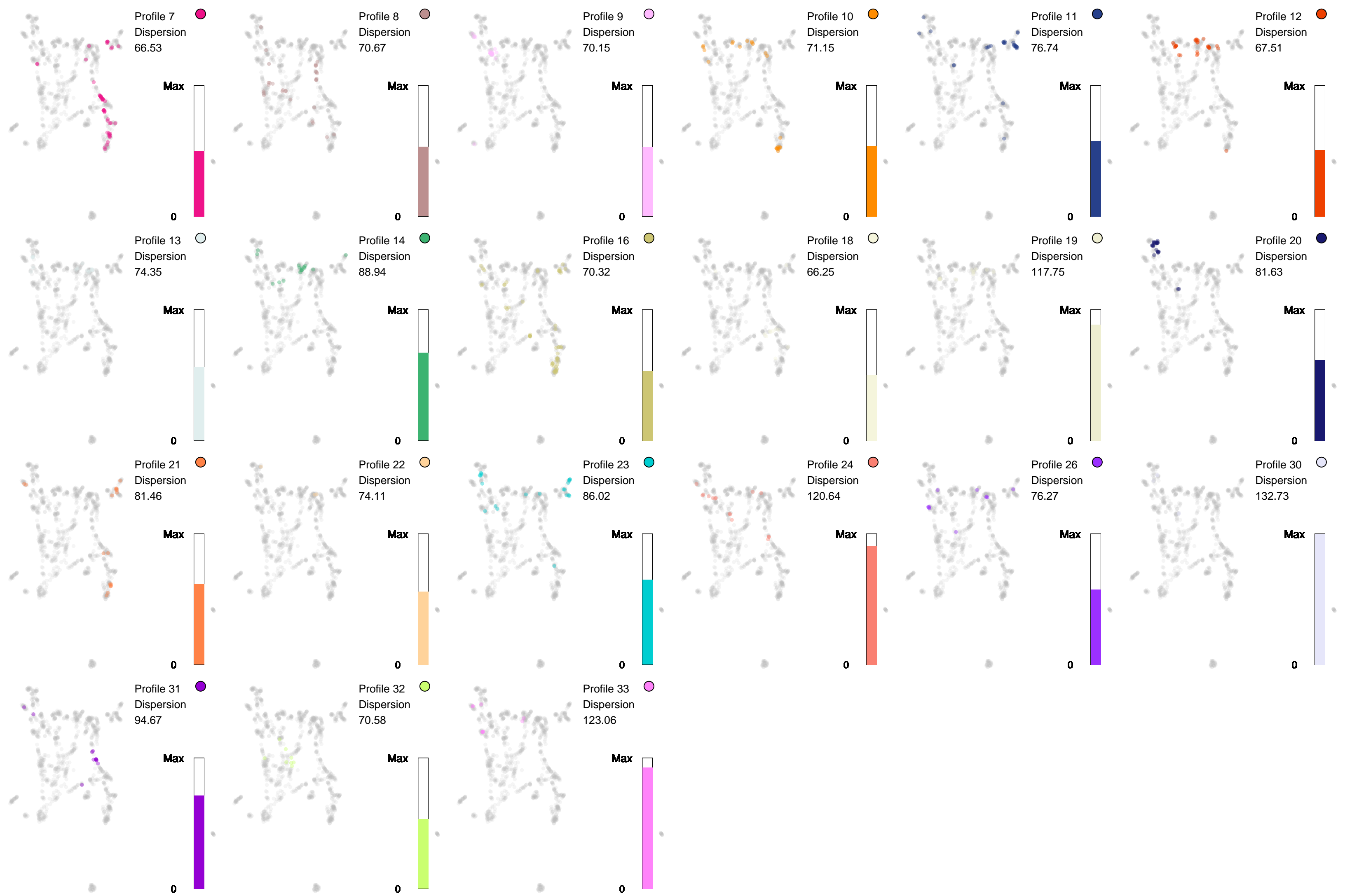
Ion Channels and Their Functional Role in Vascular Endothelium (k_opt = 32)



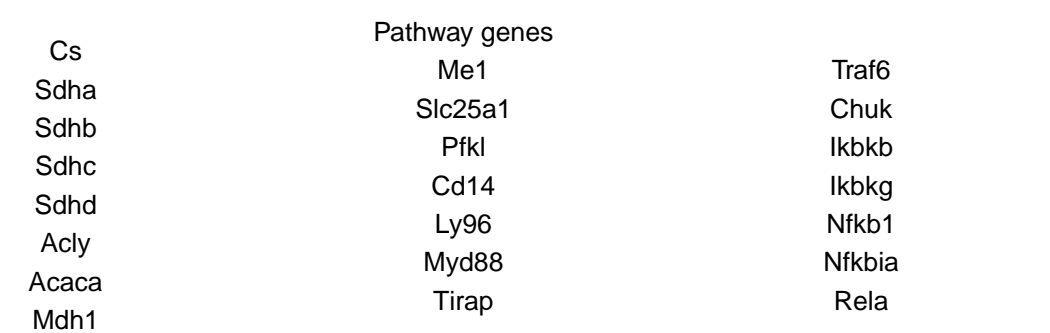
Leucine Stimulation on Insulin Signaling (k_opt = 34)



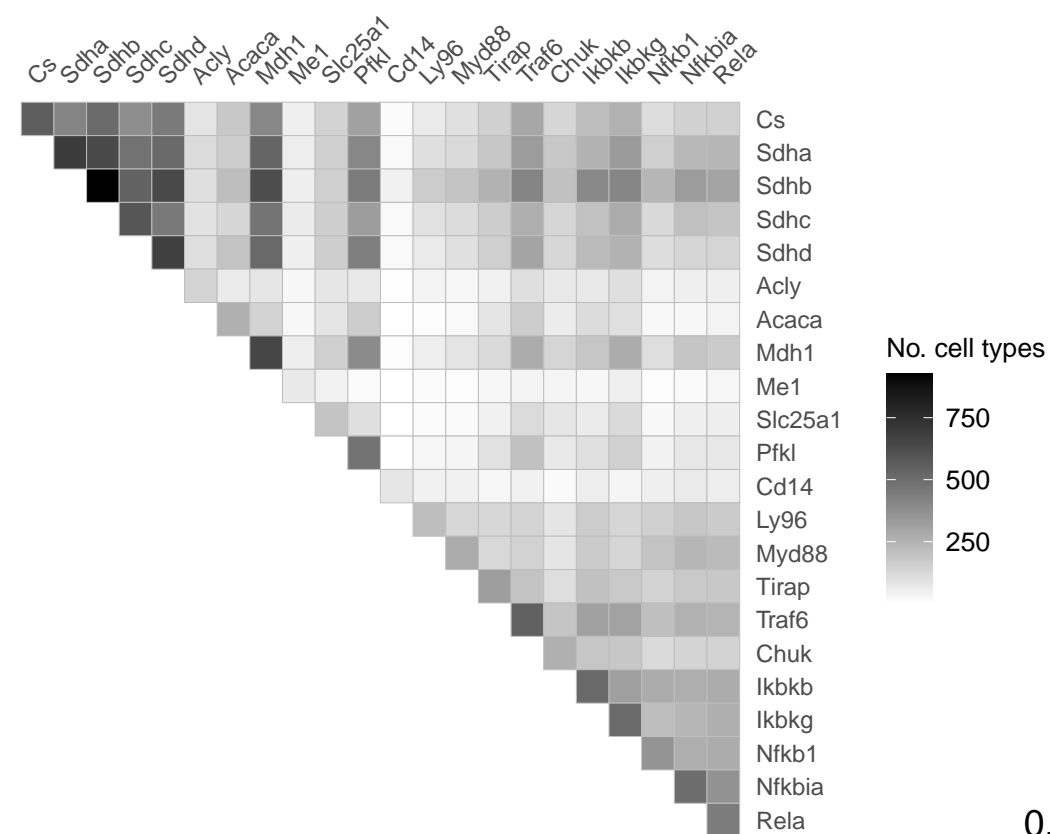
Leucine Stimulation on Insulin Signaling (k_opt = 34)



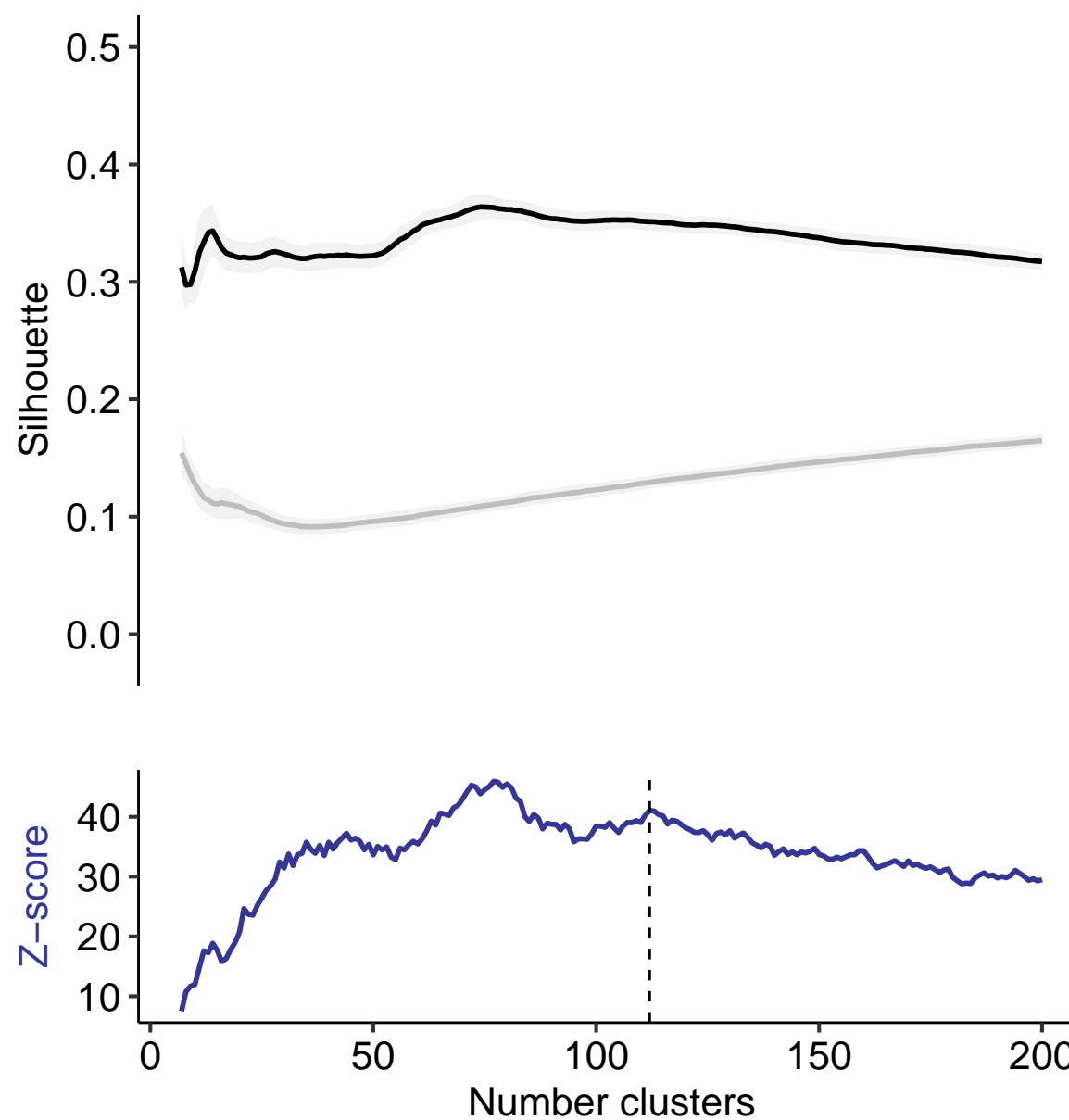
LPS and Citrate Signaling and Inflammation (k_opt = 112)



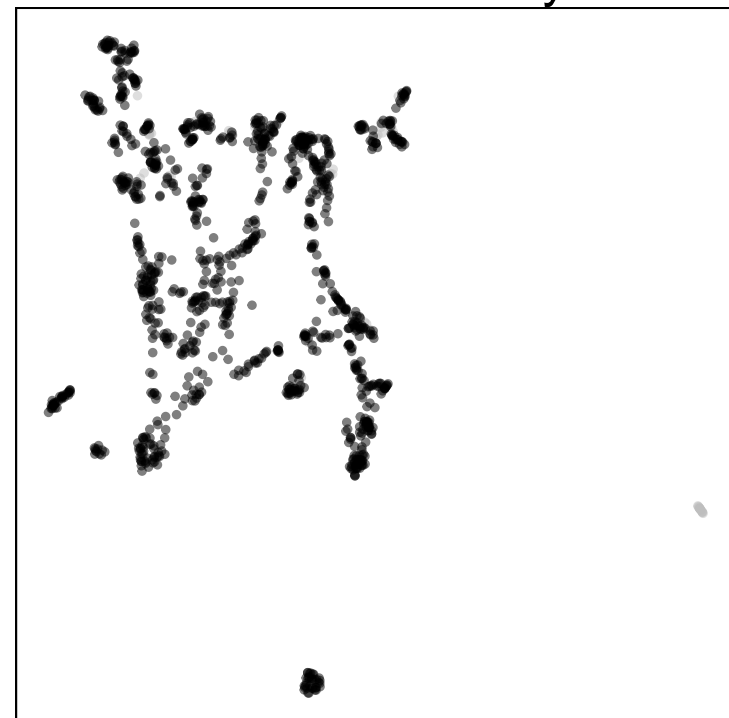
Gene Co-Expression Above Threshold



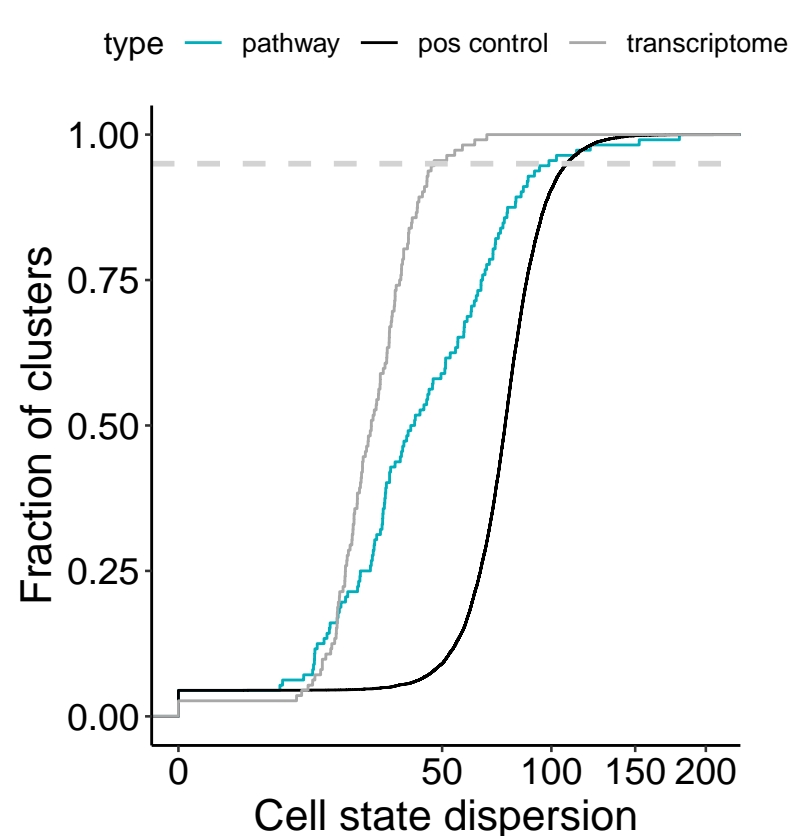
Silhouette and Z-score



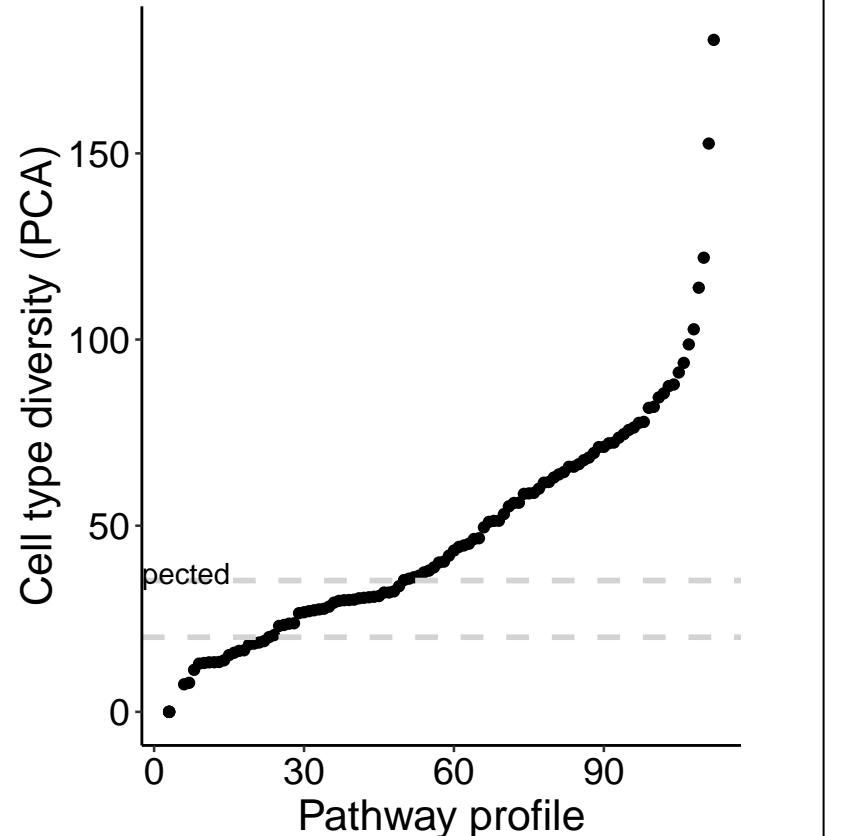
Global UMAP: Pathway ON



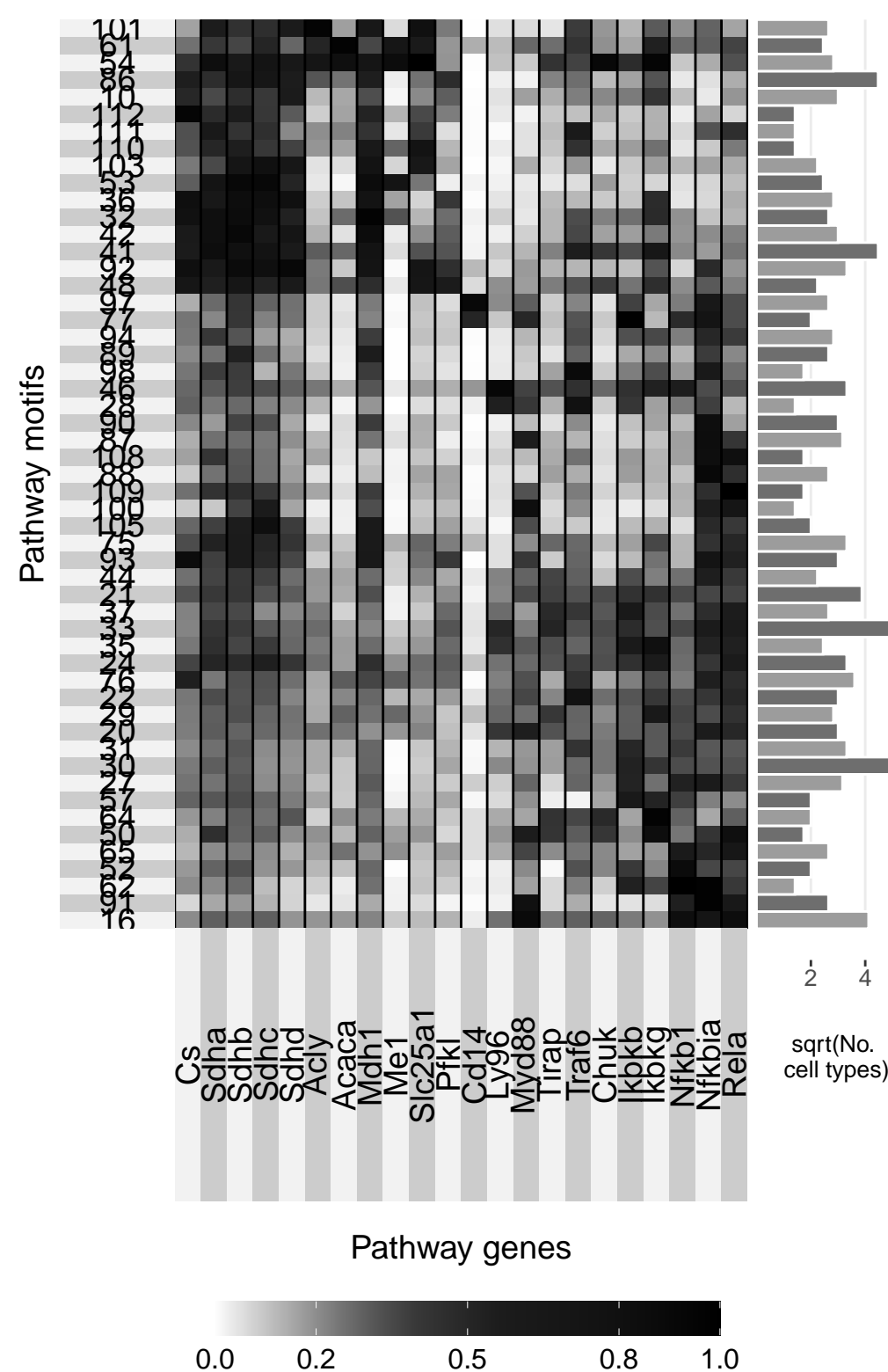
ECDF of Profile Dispersions



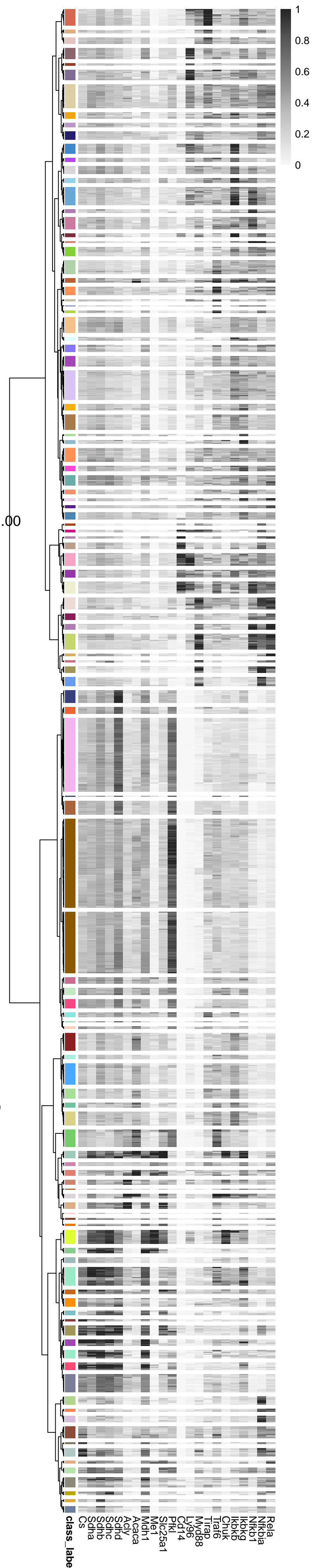
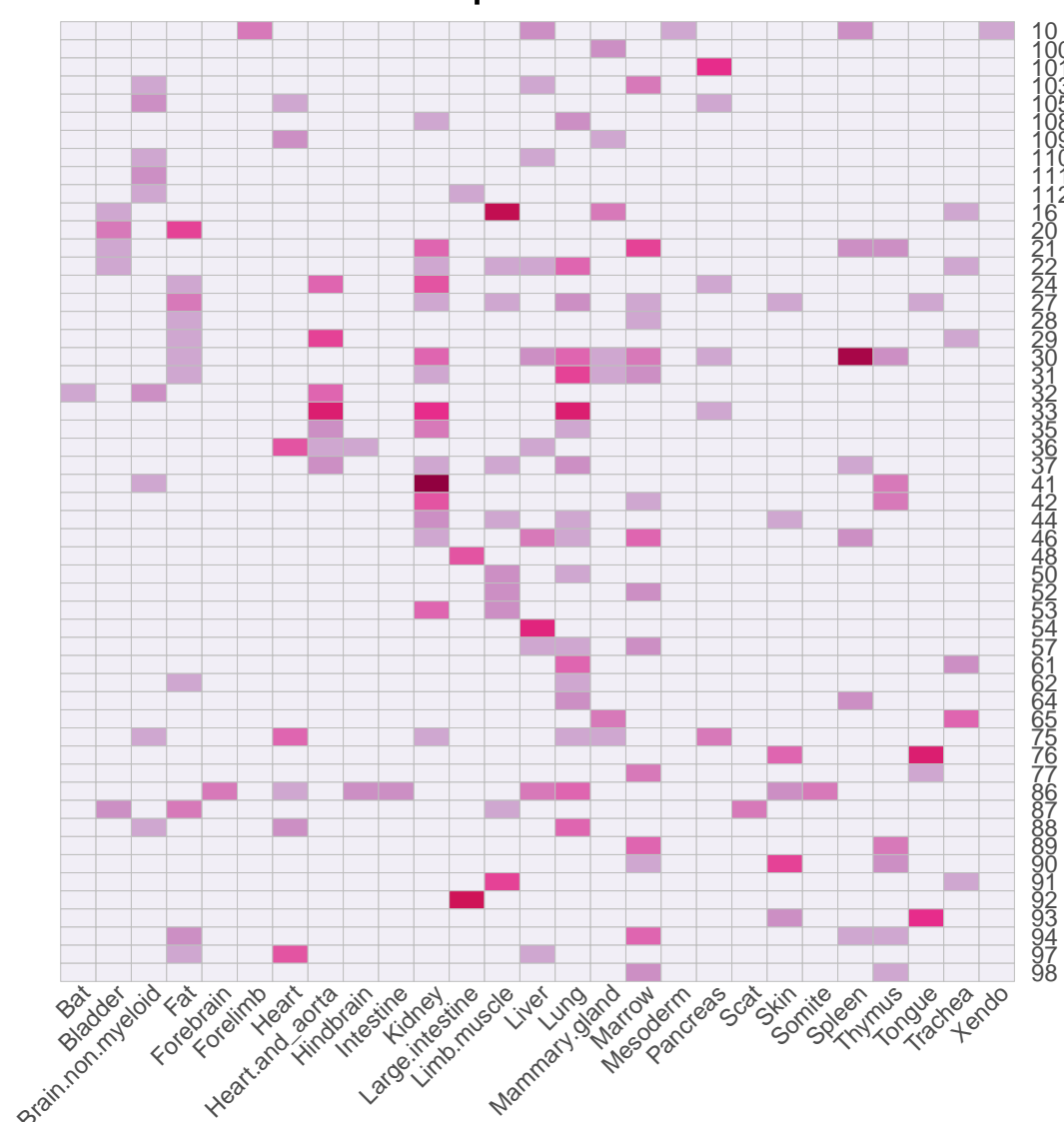
Profile Dispersion Plot



Motifs, Dispersion $\geq 90^{\text{th}}$ percentile



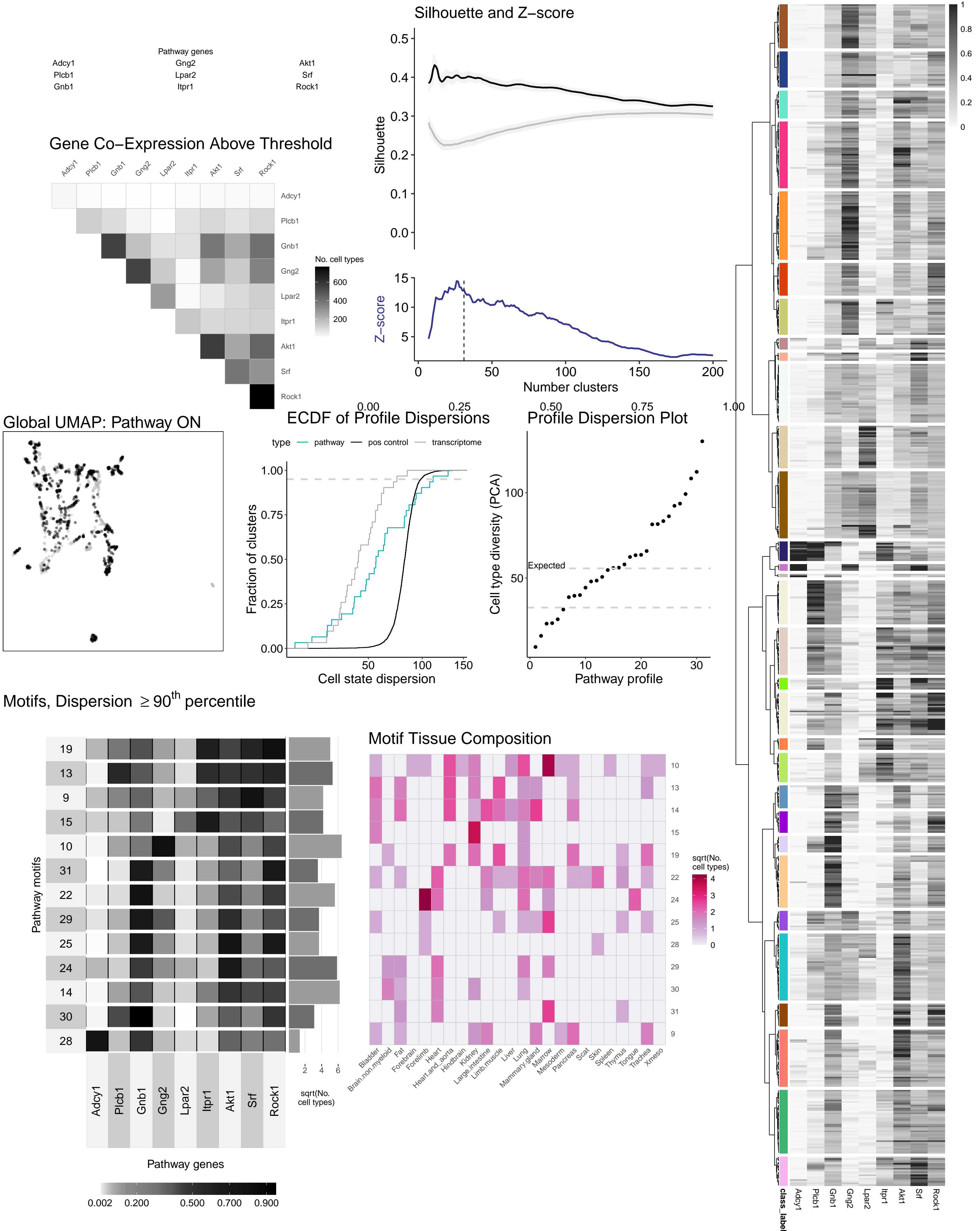
Motif Tissue Composition



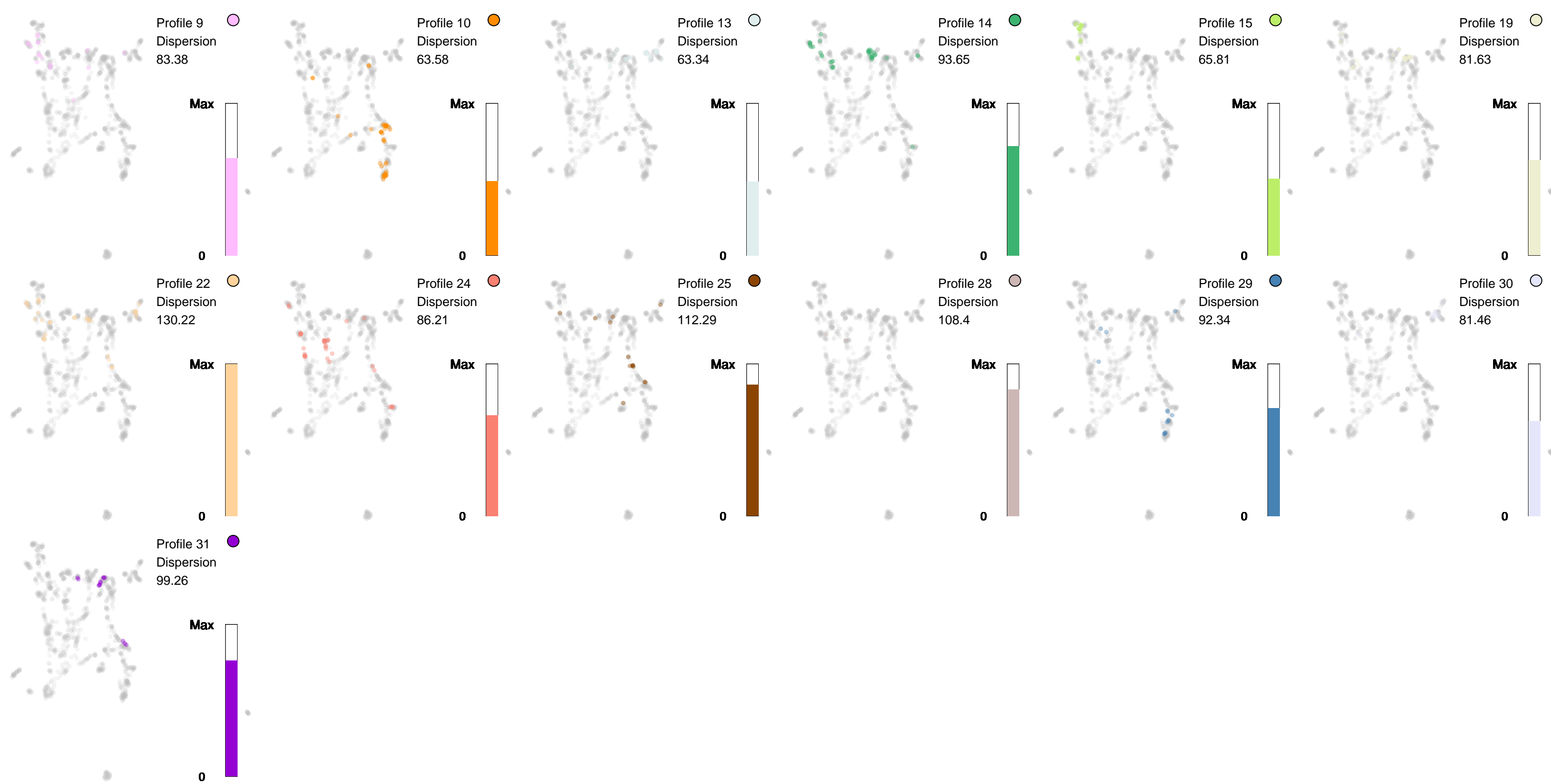
LPS and Citrate Signaling and Inflammation (k_opt = 112)



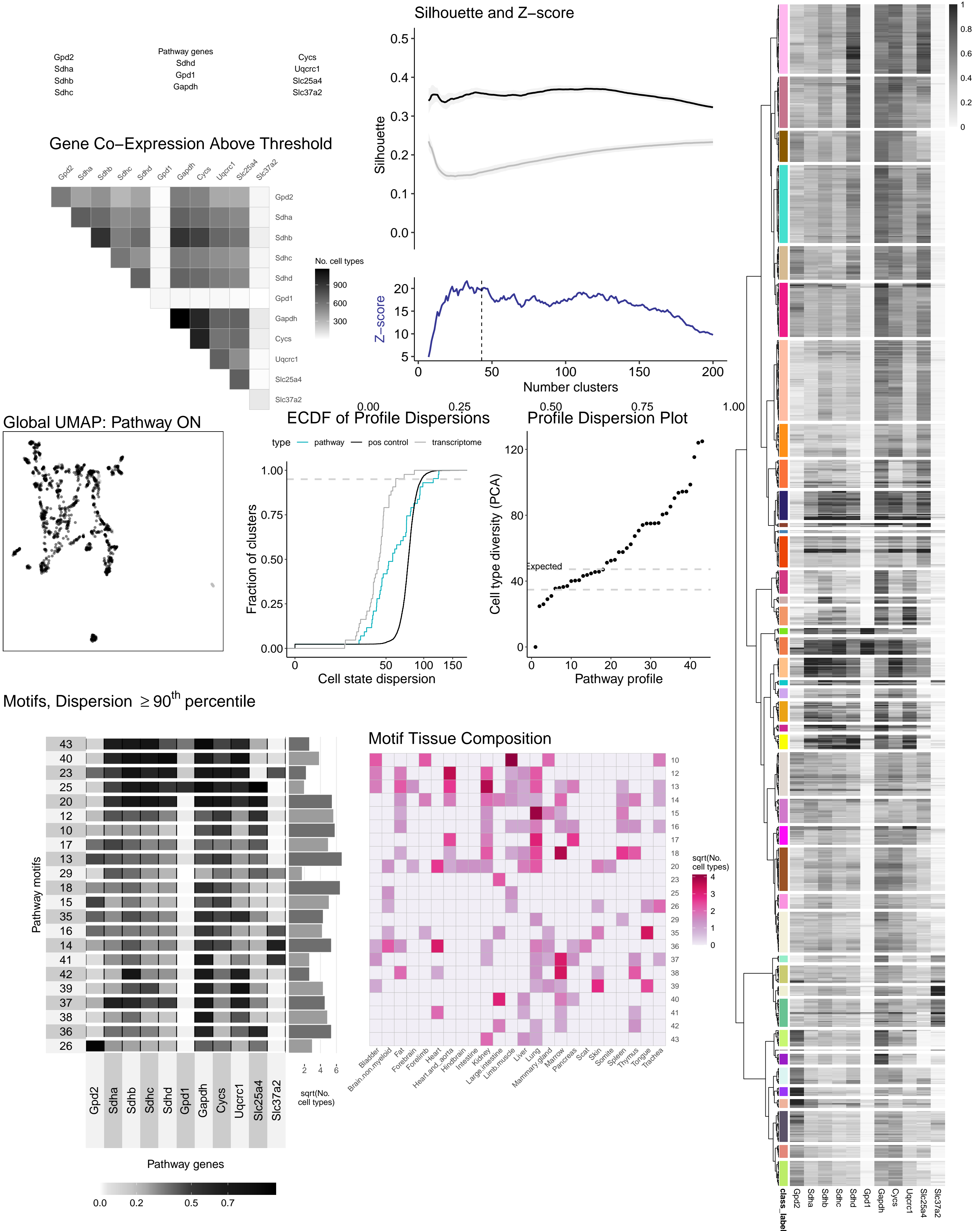
Lysophosphatidic Acid LPA2 Signalling (k_opt = 31)



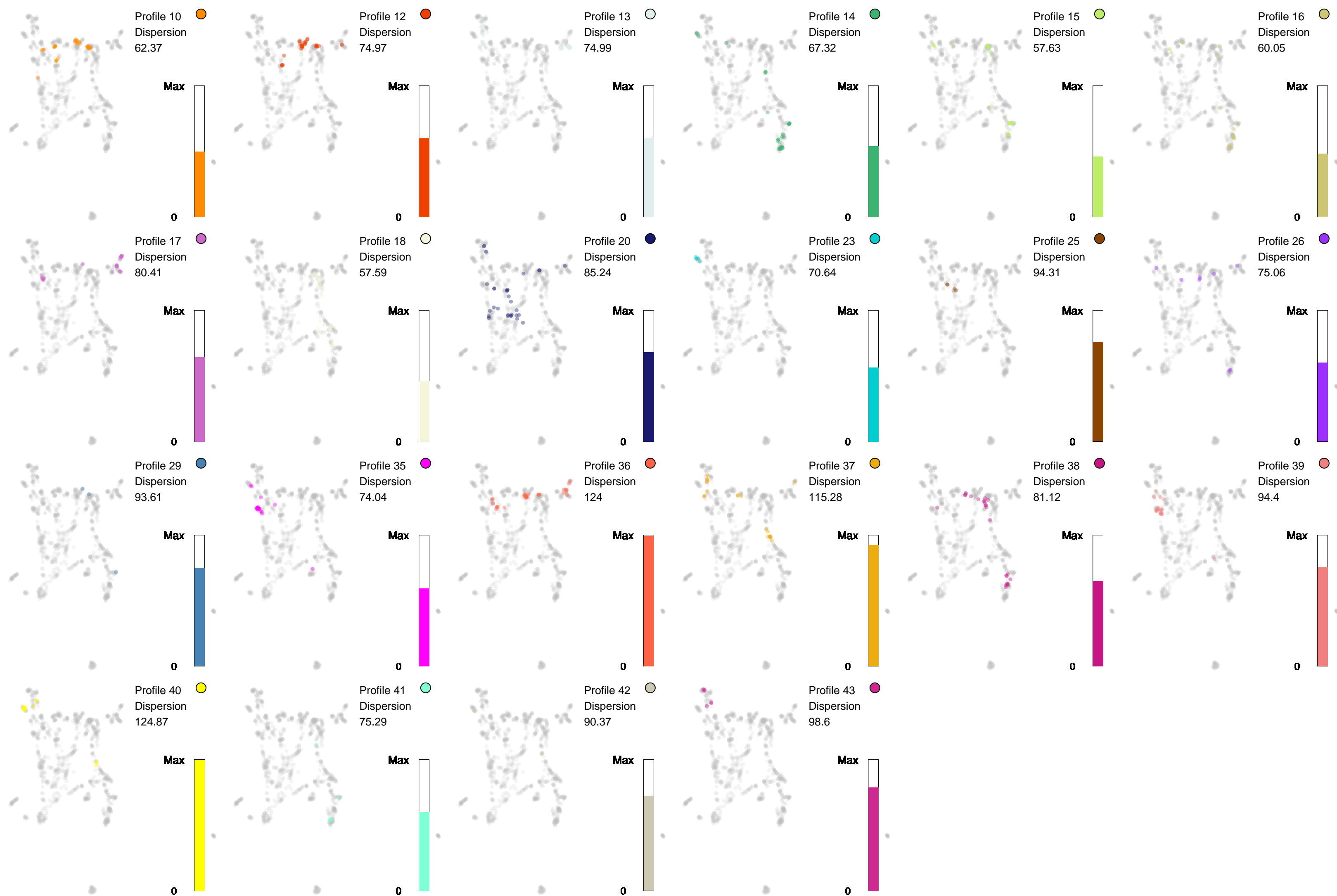
Lysophosphatidic Acid LPA2 Signalling (k_opt = 31)



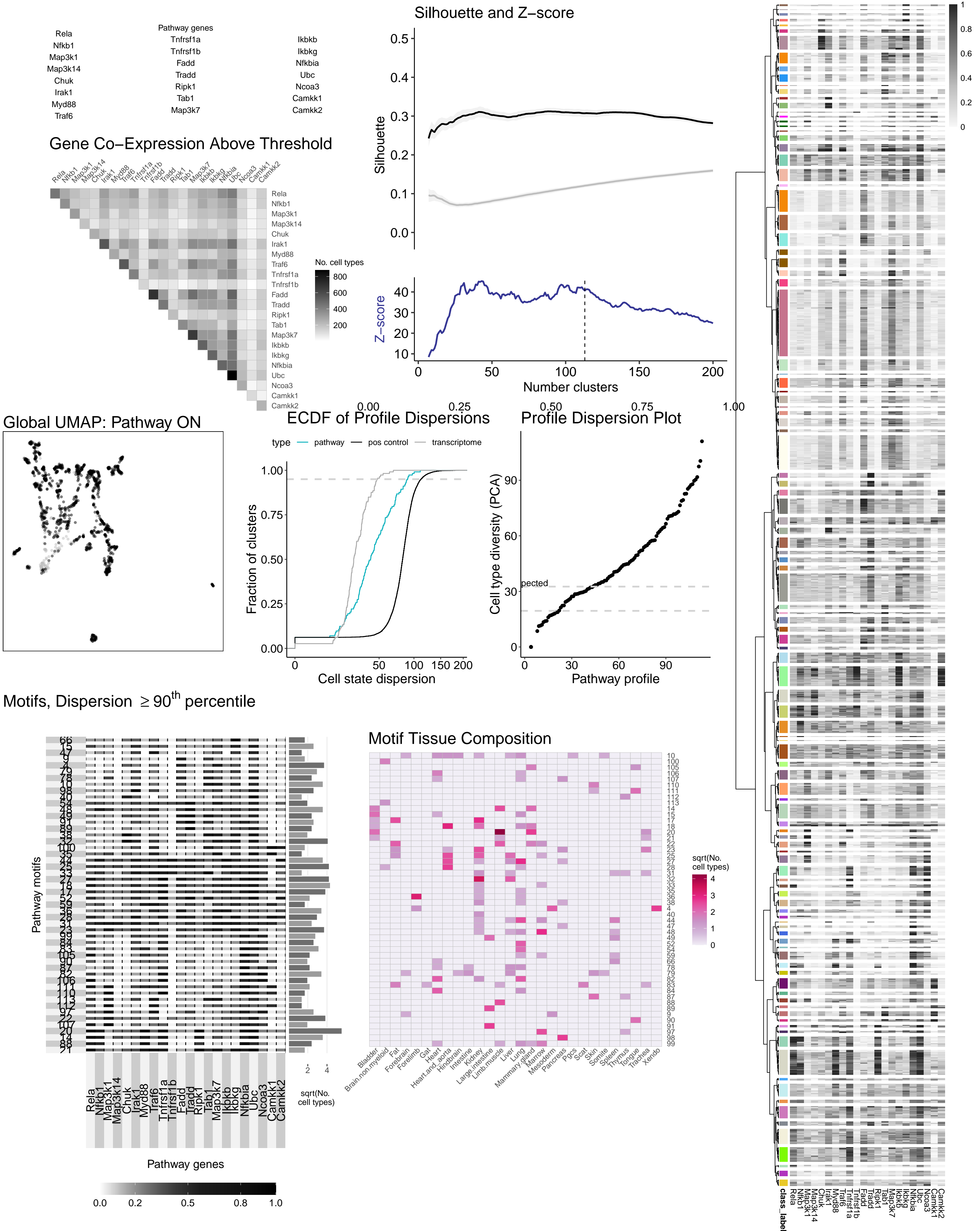
Mitochondrial Electron Transport Chain (k_opt = 43)



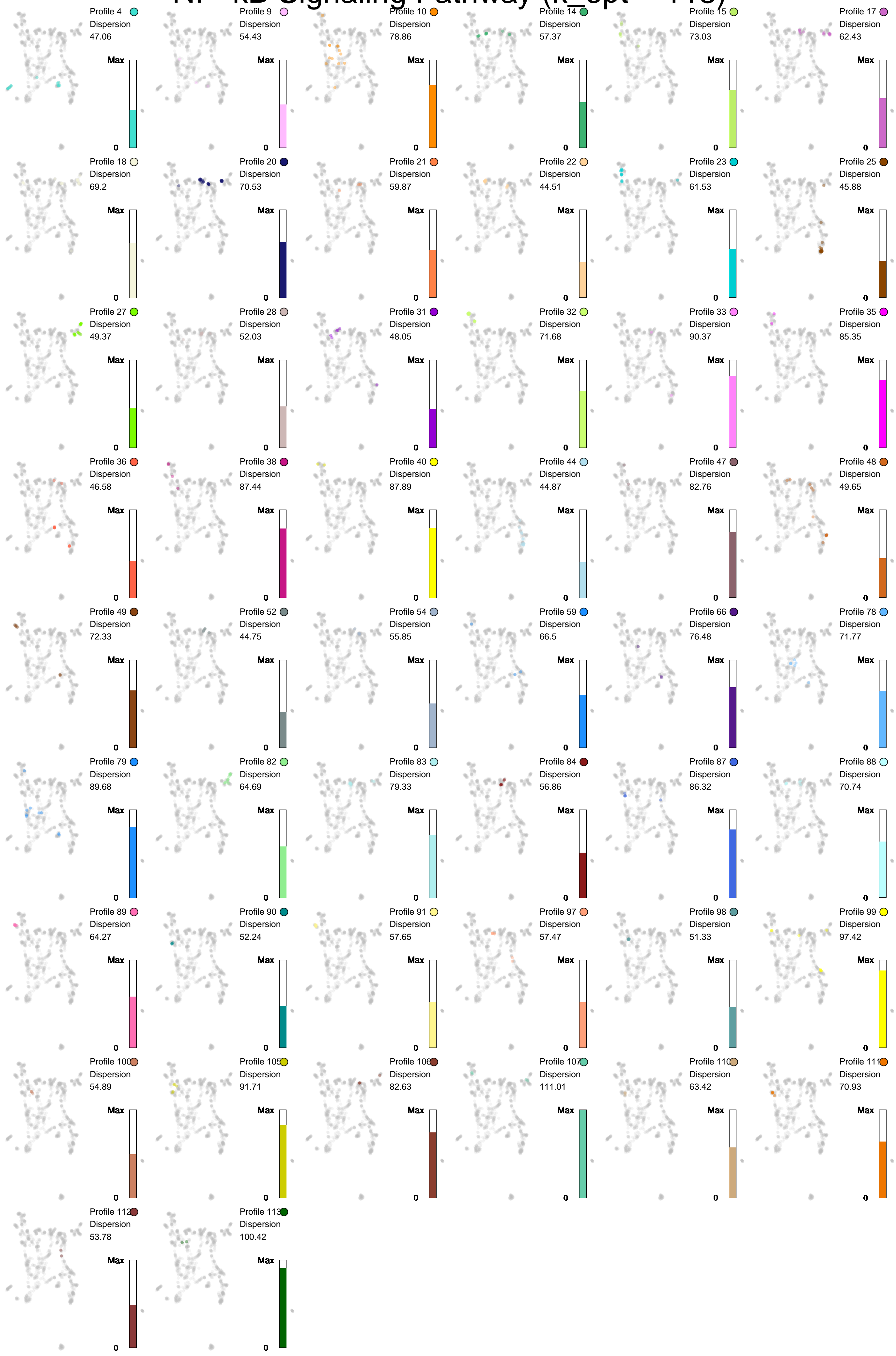
Mitochondrial Electron Transport Chain (k_opt = 43)



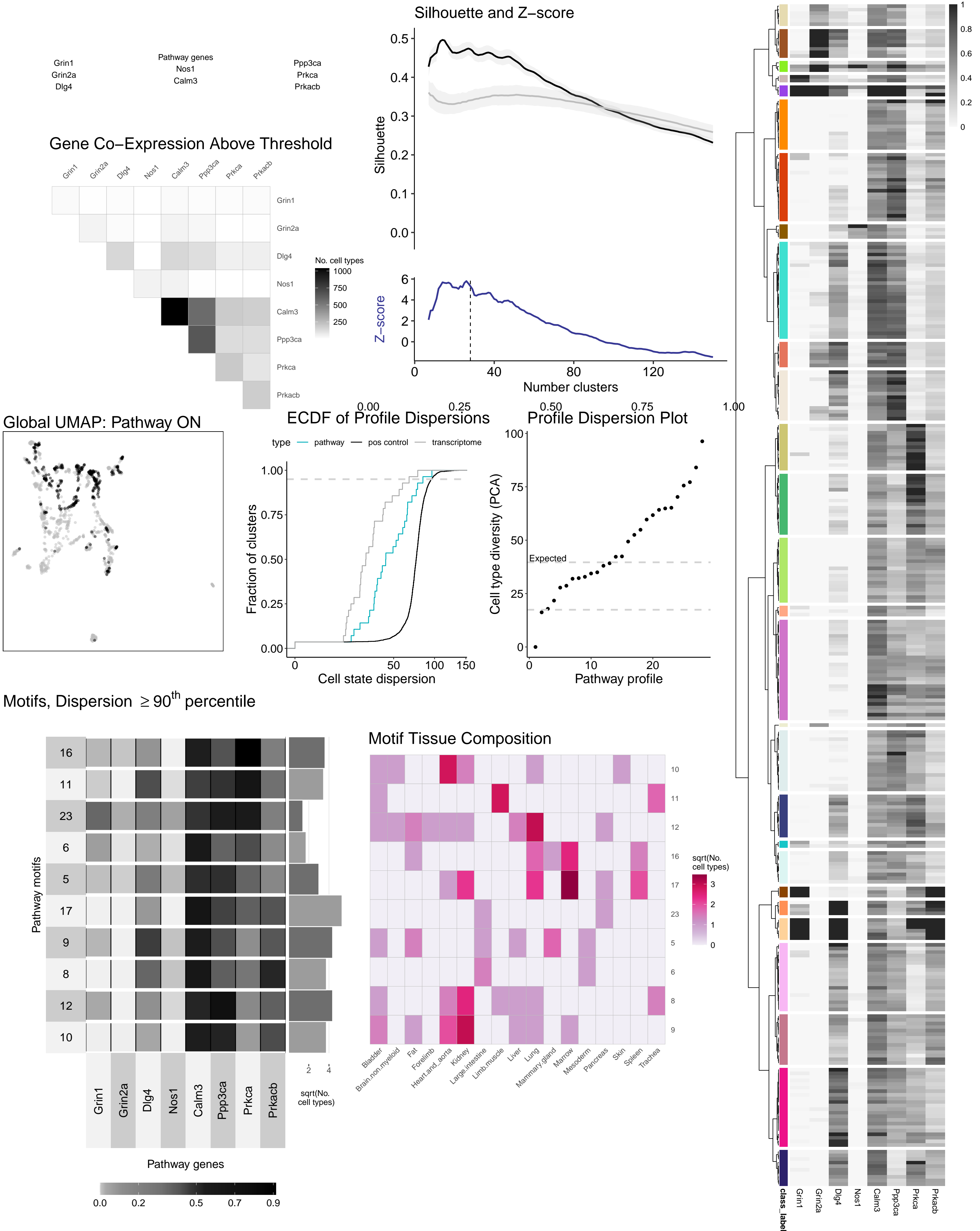
NF- κ B Signaling Pathway (k_opt = 113)



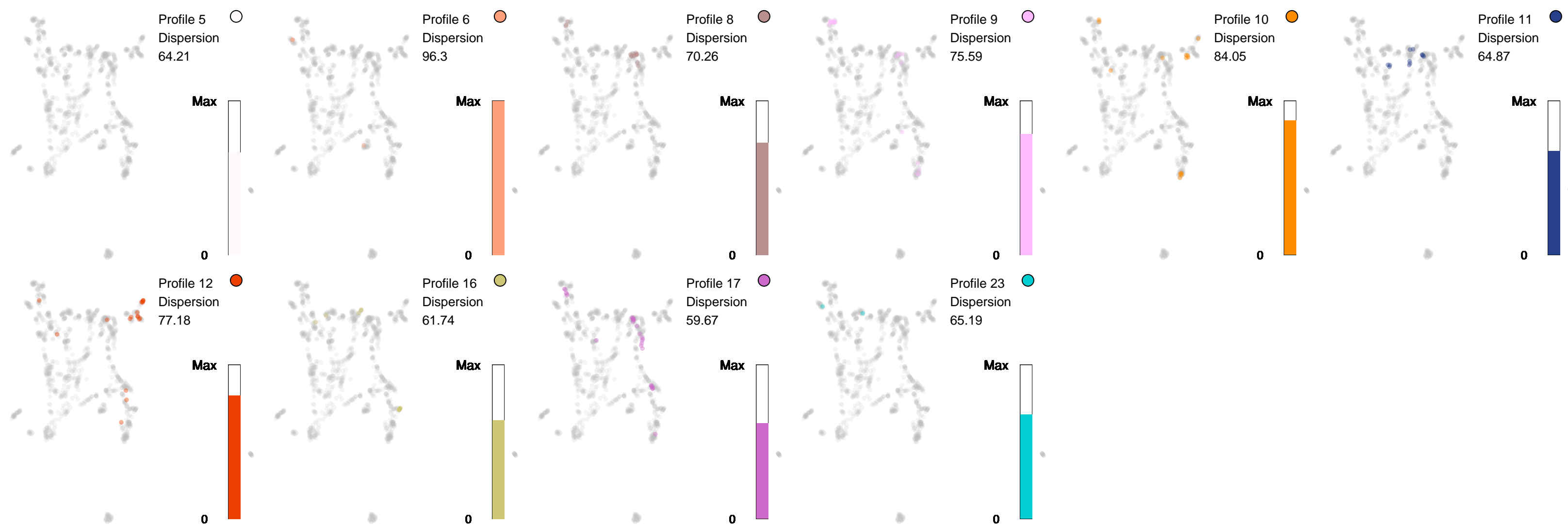
NF- κ B Signaling Pathway (k_{opt} = 113)



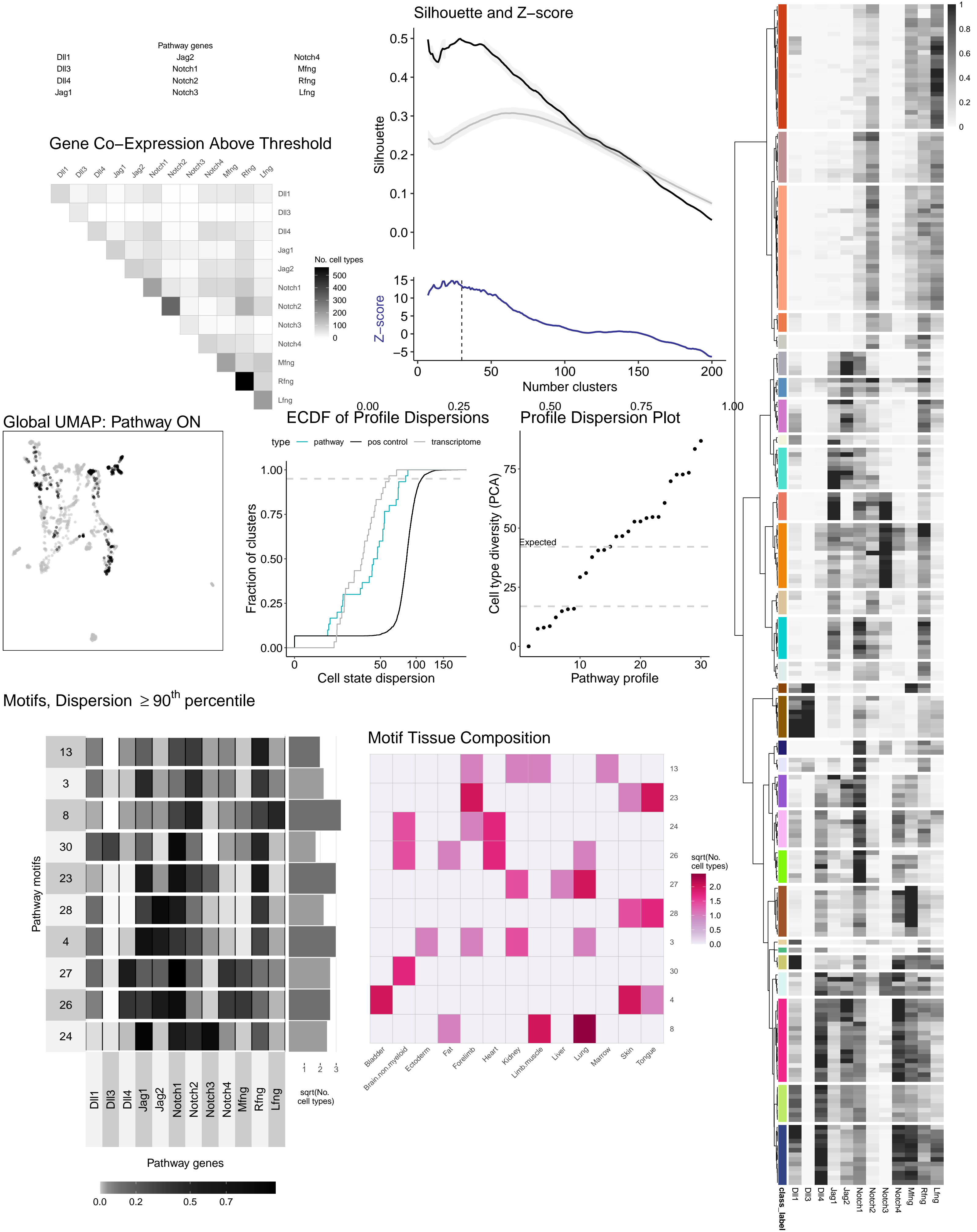
Nitric Oxide Signaling Pathway (k_opt = 28)



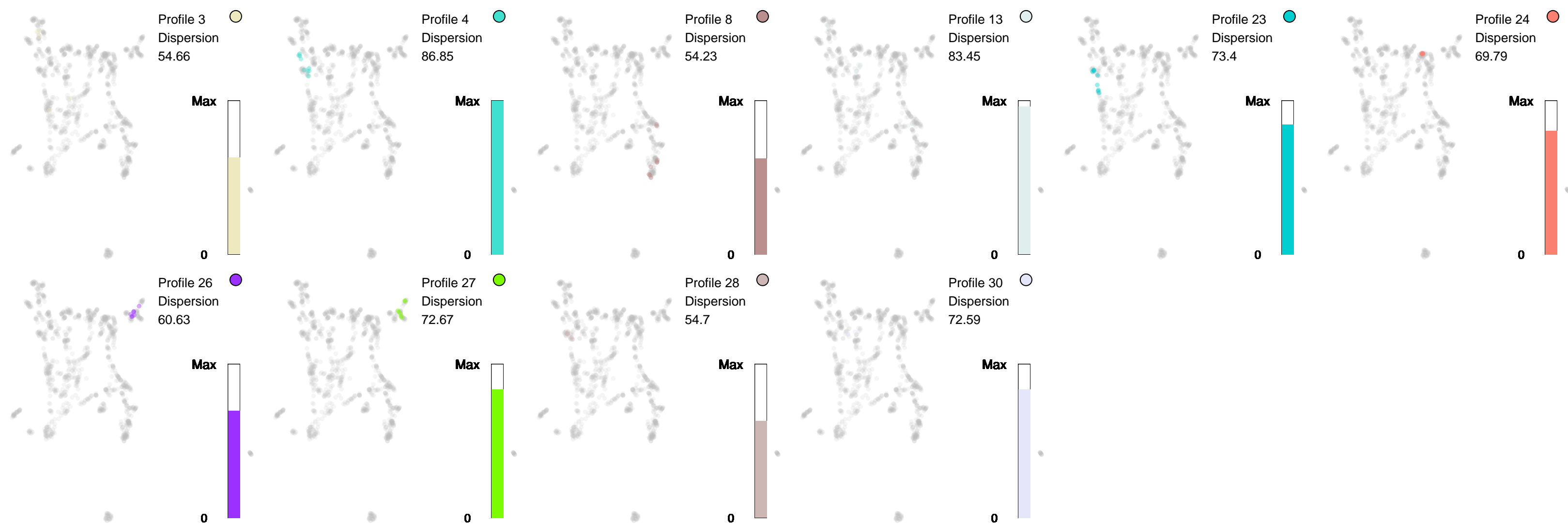
Nitric Oxide Signaling Pathway (k_opt = 28)



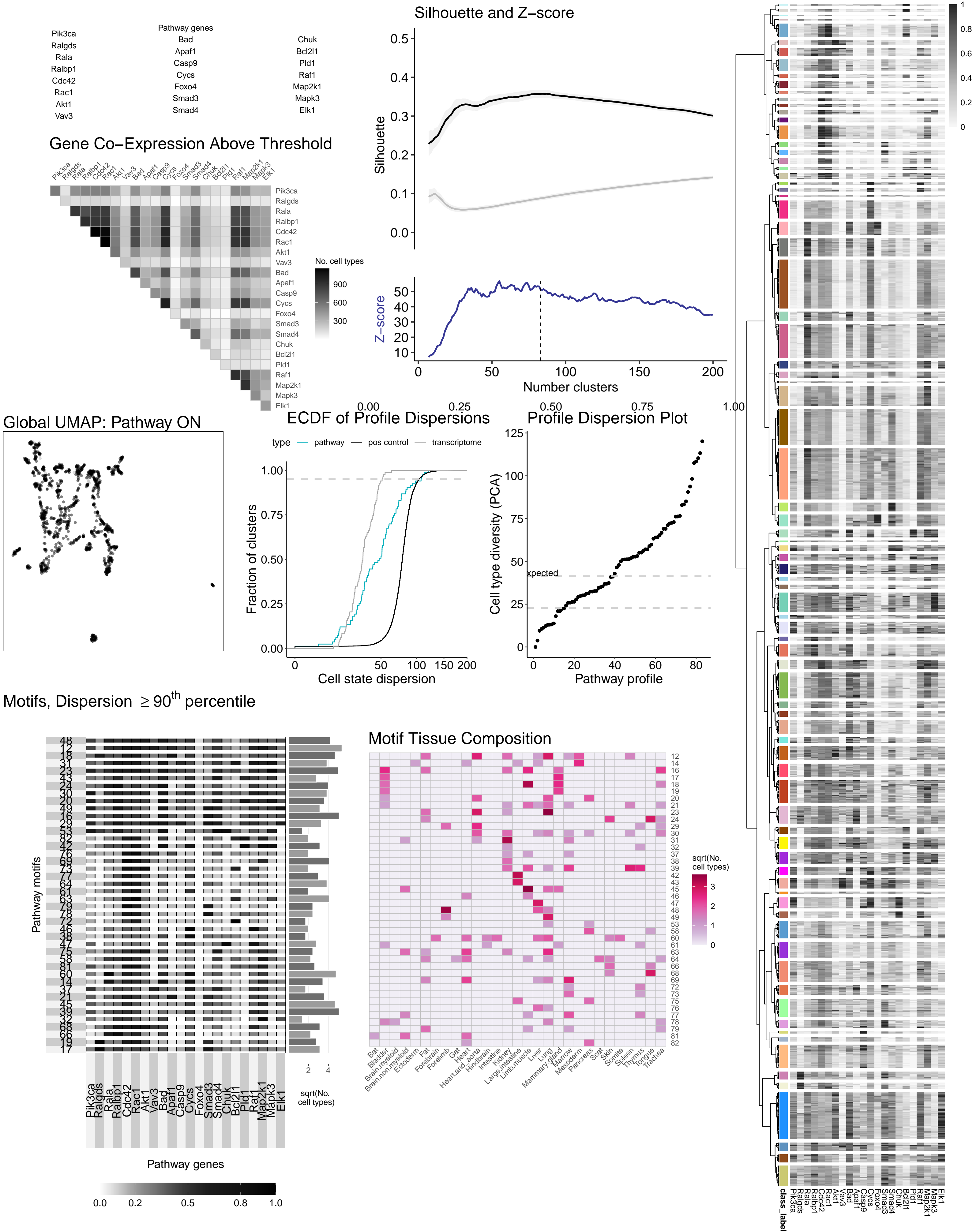
Notch receptors, Dll ligands and Fringe proteins (k_opt = 30)



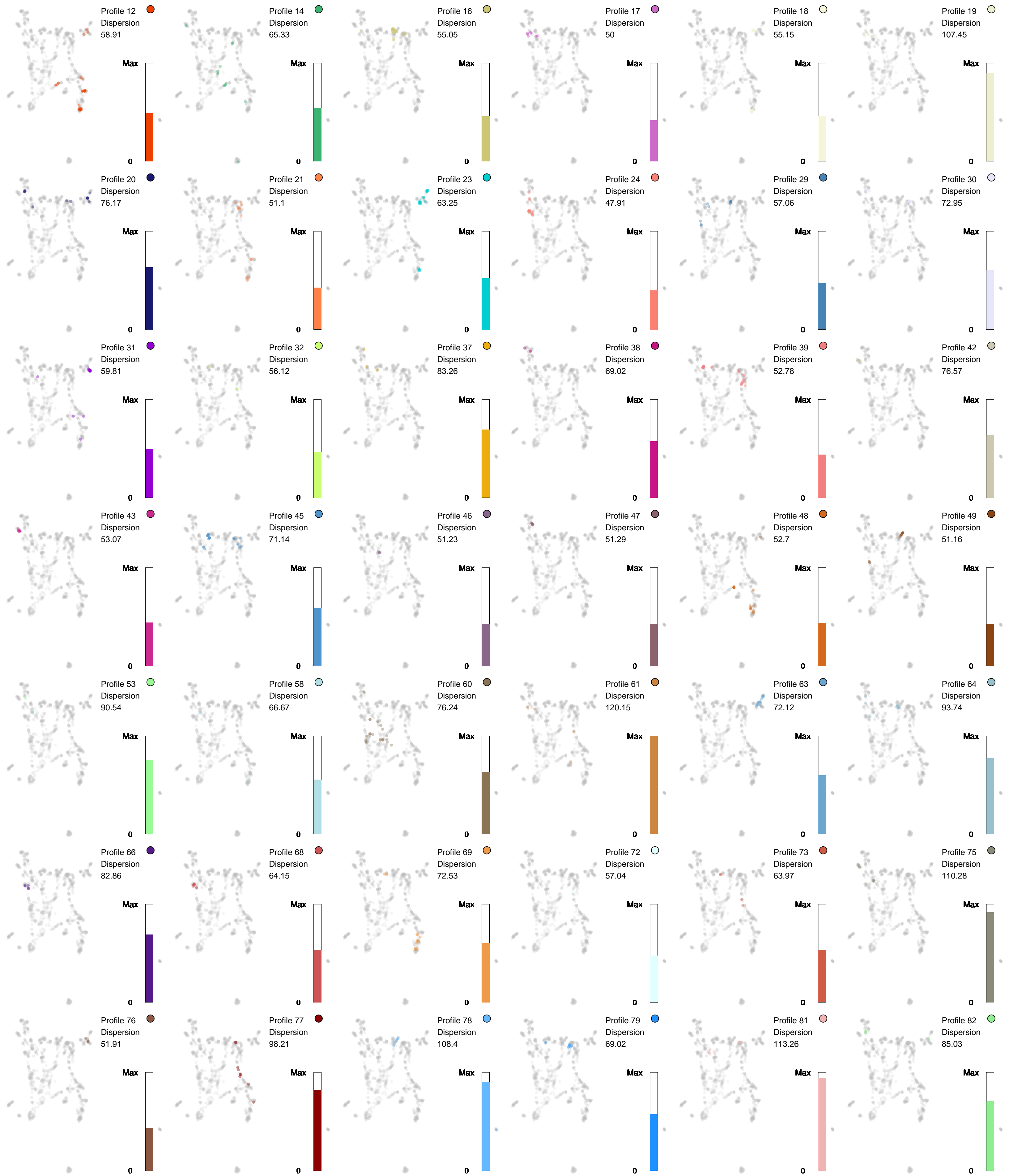
Notch receptors, Dll ligands and Fringe proteins (k_opt = 30)



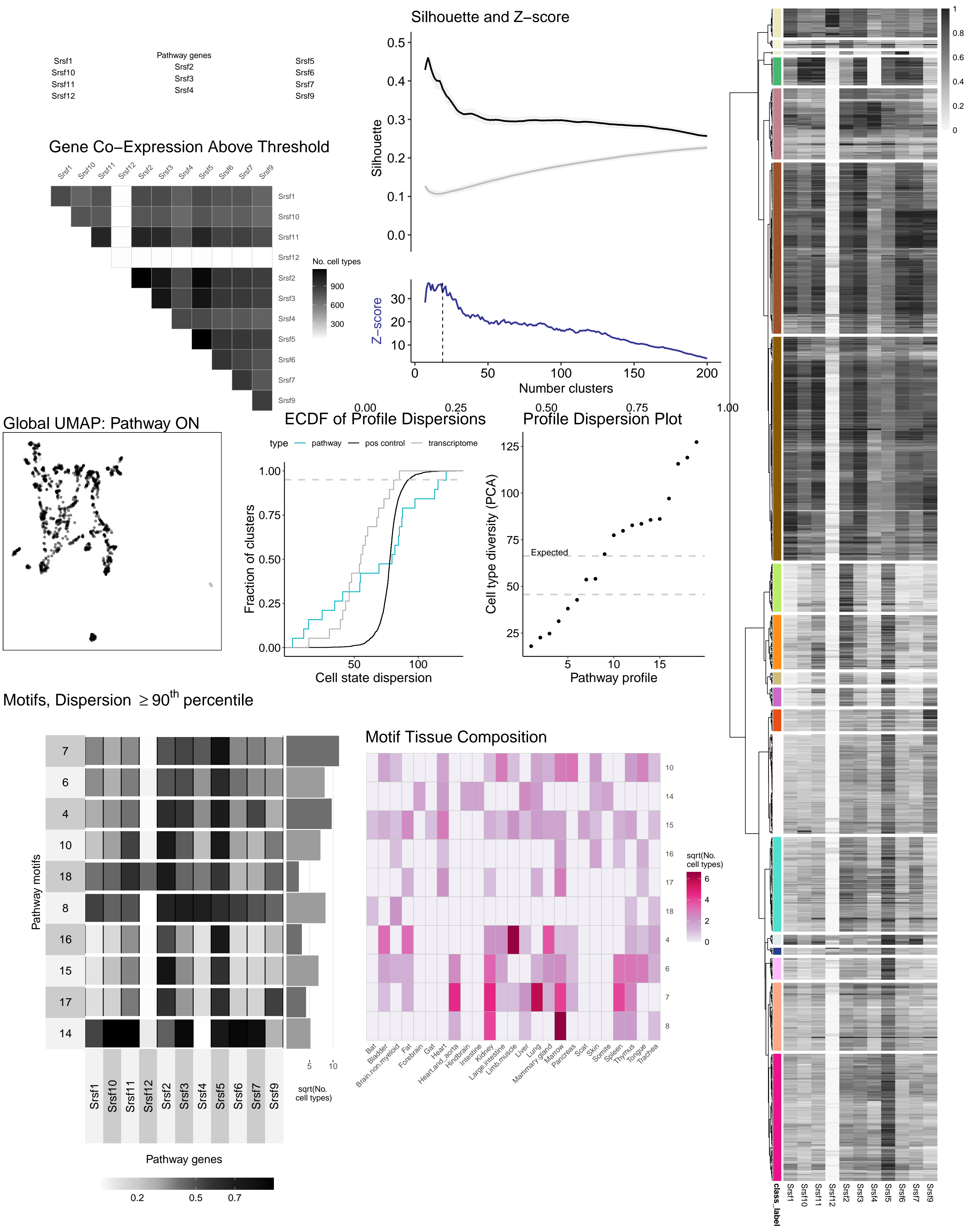
Ras Signaling Pathway (k_opt = 83)



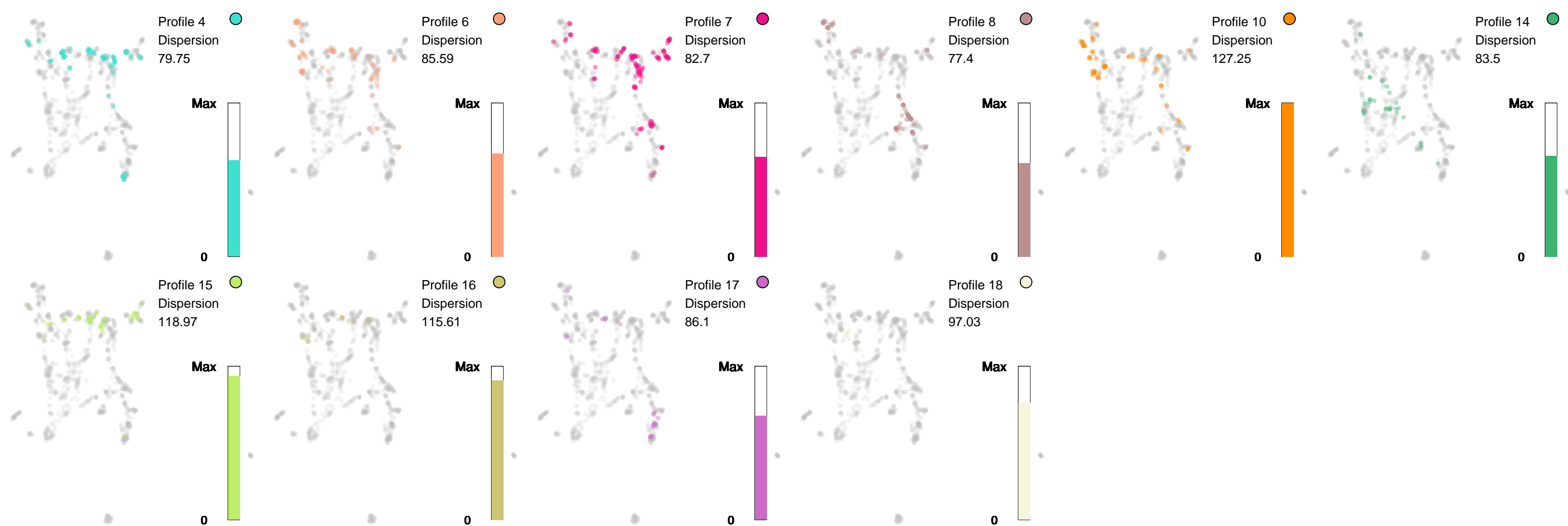
Ras Signaling Pathway (k_opt = 83)



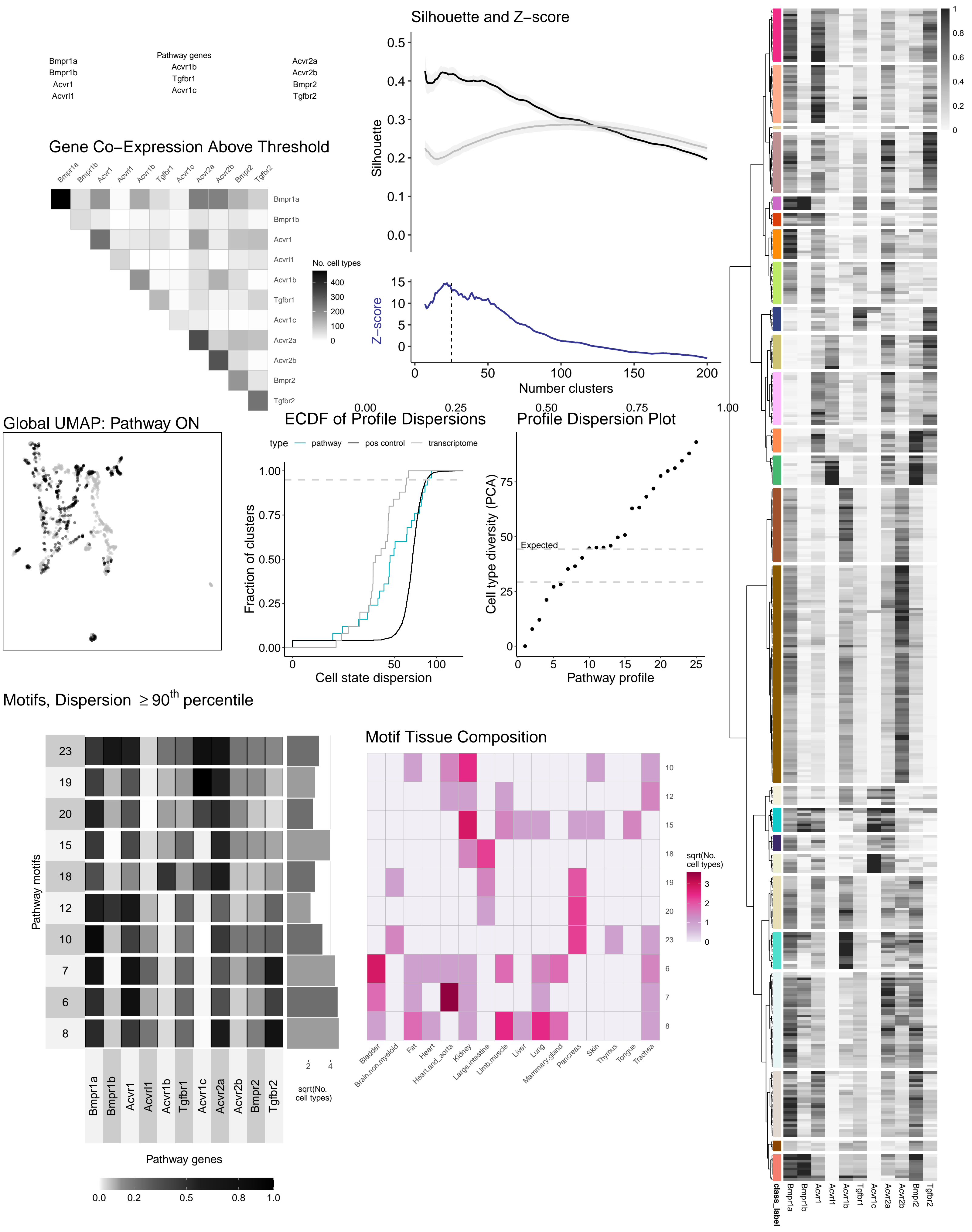
RNA-splicing by SR protein family (k_opt = 19)



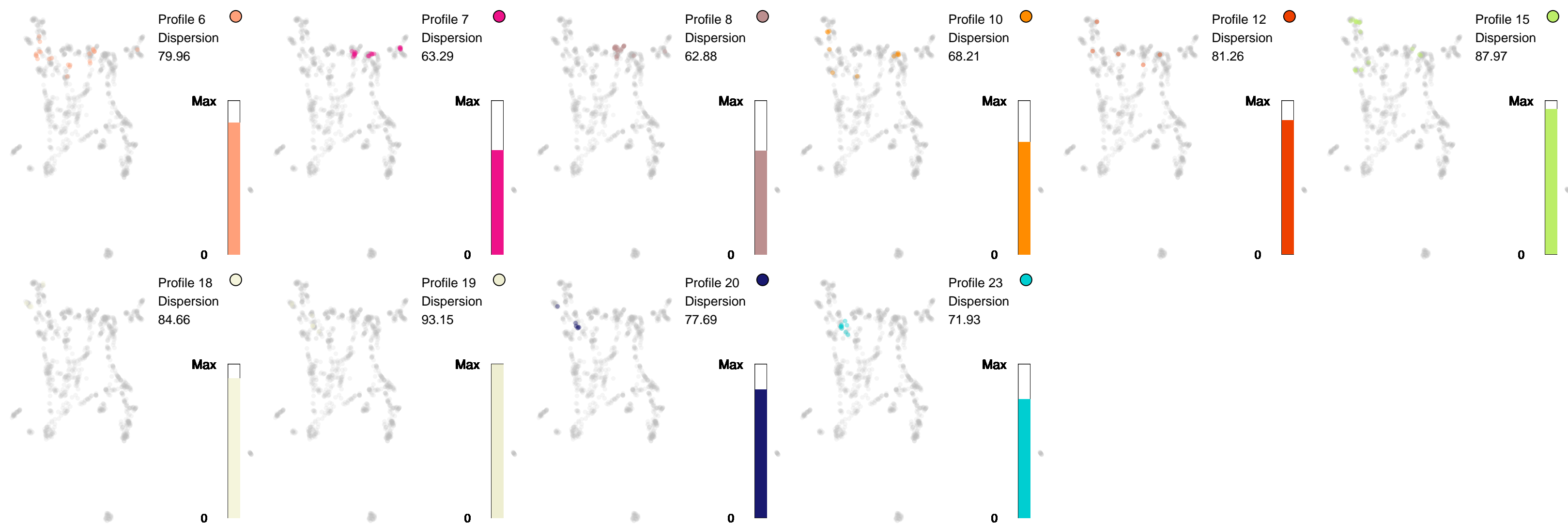
RNA-splicing by SR protein family (k_opt = 19)



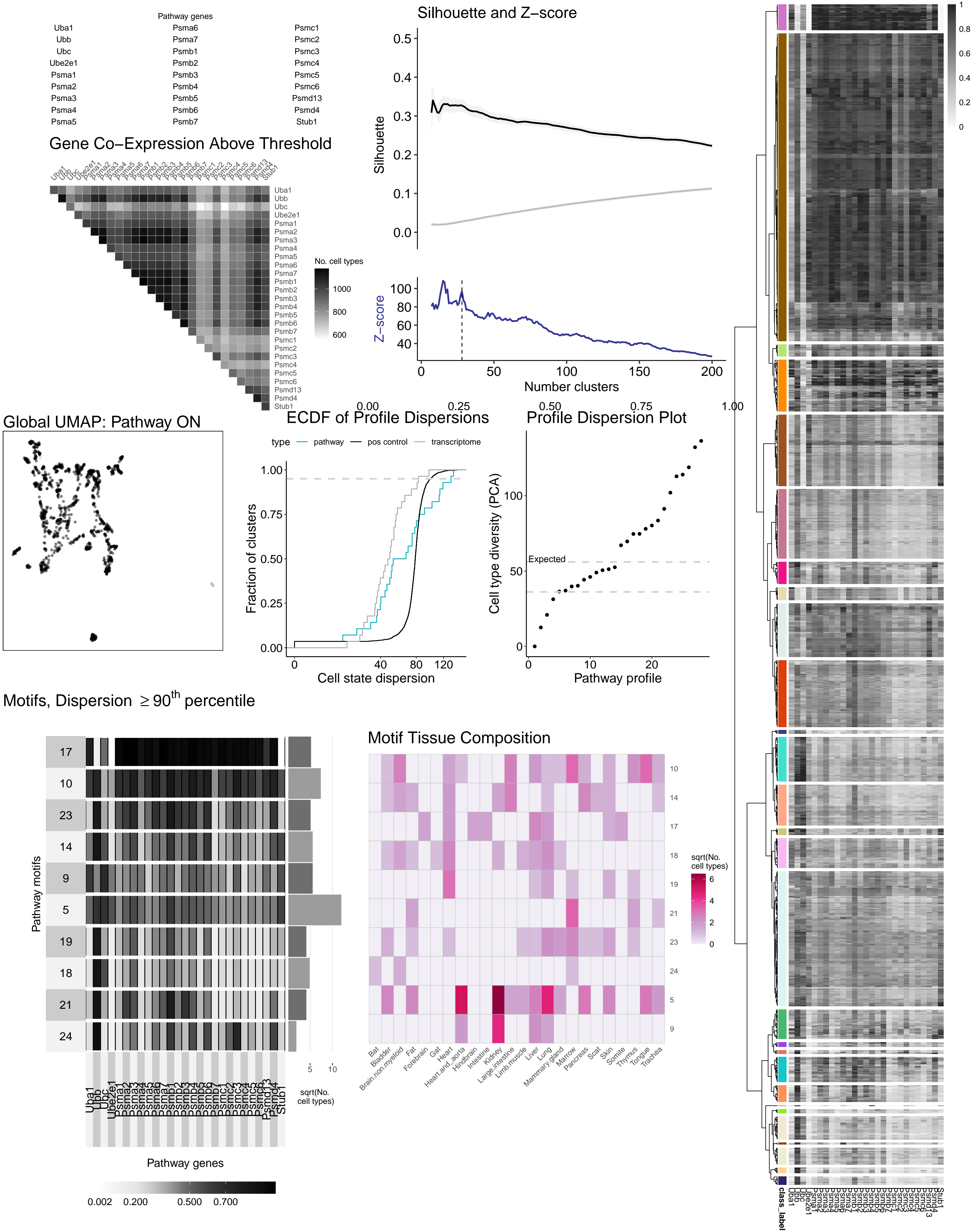
Tgf-beta family receptors (k_opt = 25)



Tgf-beta family receptors (k_opt = 25)



Ubiquitin–Proteasome Pathway (k_opt = 28)



Ubiquitin-Proteasome Pathway (k_opt = 28)

