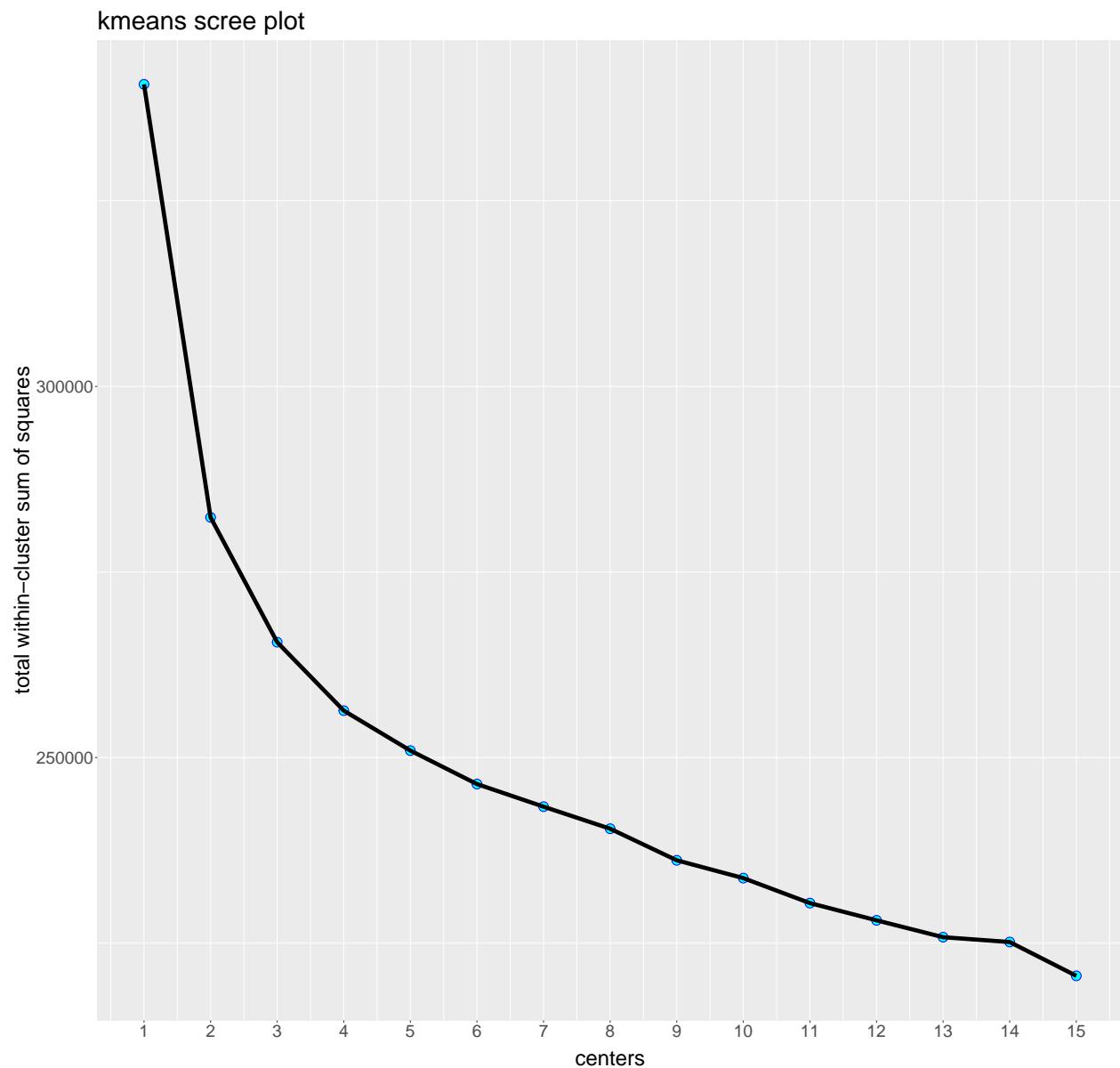
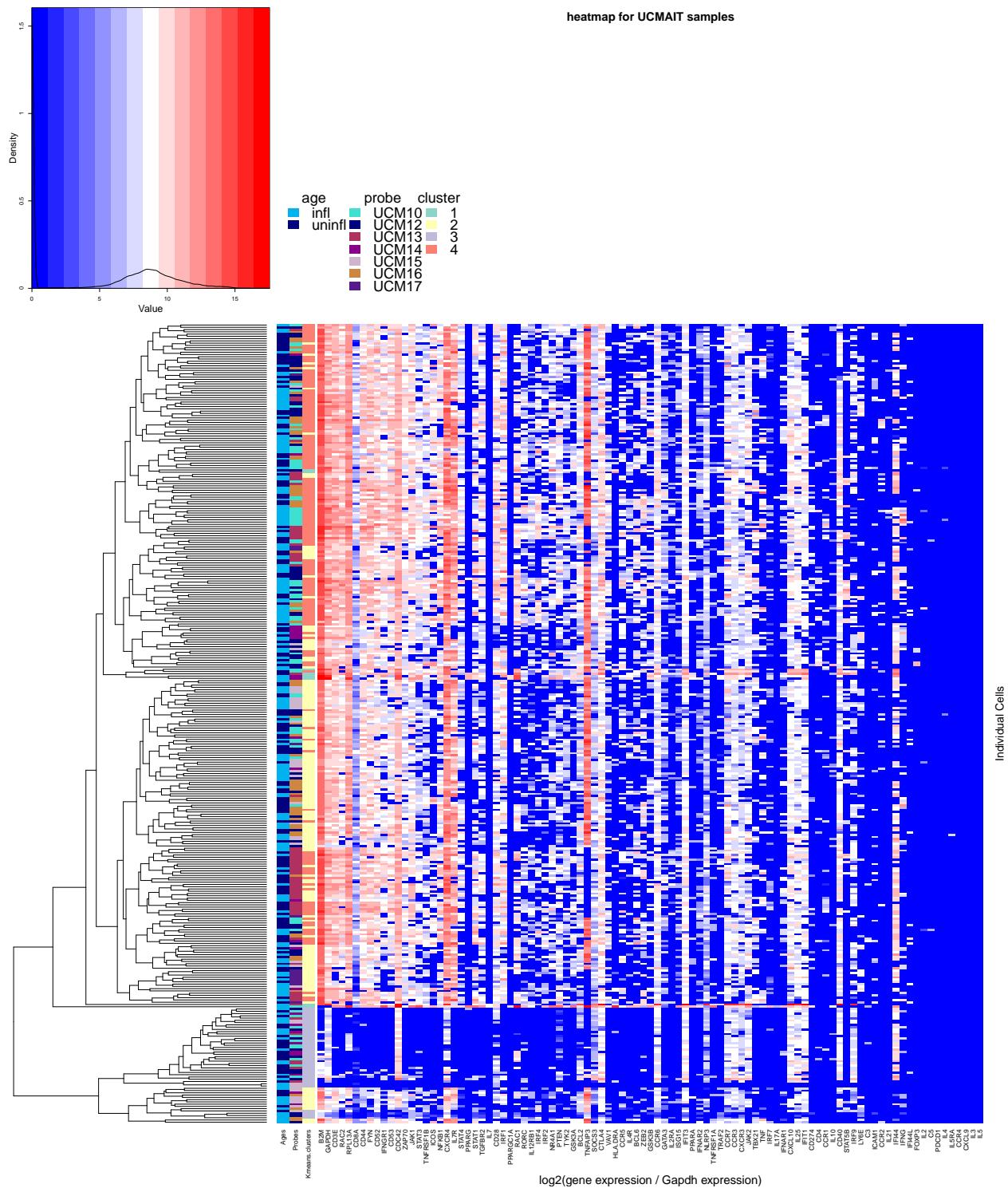


UC-MAIT analysis (tissue only)

No expression detected in 2/355 cells





[1]

[1]

[1] Probe vs. Cluster

	probe_UCM10	probe_UCM12	probe_UCM13	probe_UCM14	probe_UCM15
cluster_1	2	1	3	2	0
cluster_2	13	26	18	12	32
cluster_3	10	10	6	7	5

cluster_4	49	38	37	4	1
	probe_UCM16	probe_UCM17			
cluster_1	0	0			
cluster_2	34	12			
cluster_3	1	0			
cluster_4	29	1			

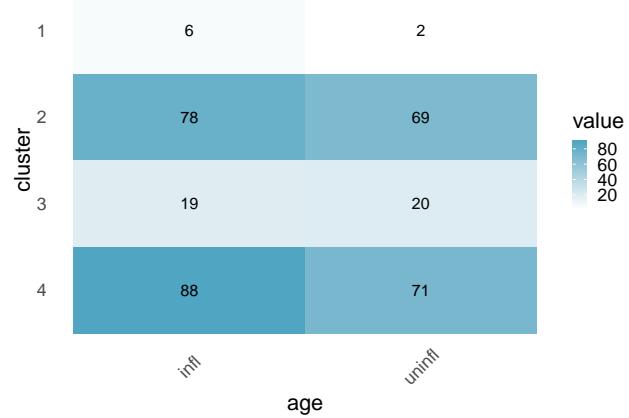
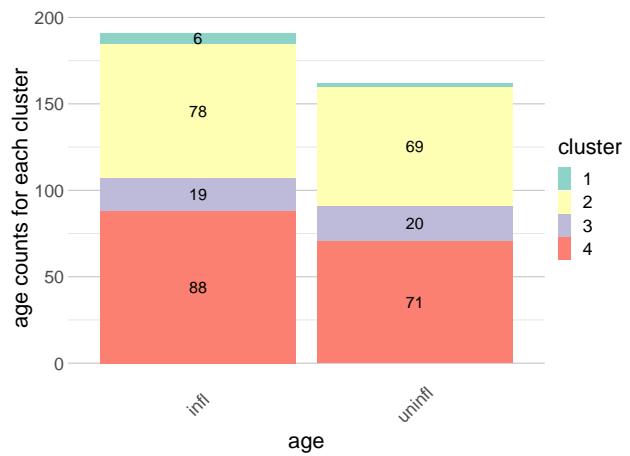
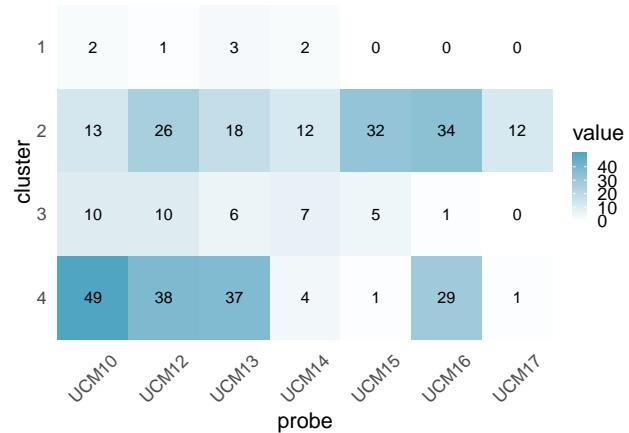
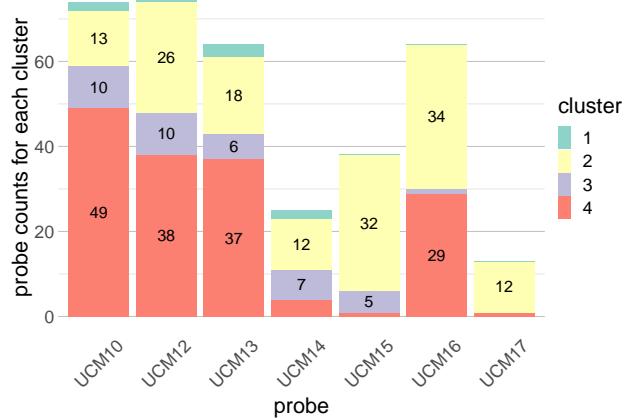
Pearson's Chi-squared test with simulated p-value (based on 2000 replicates)

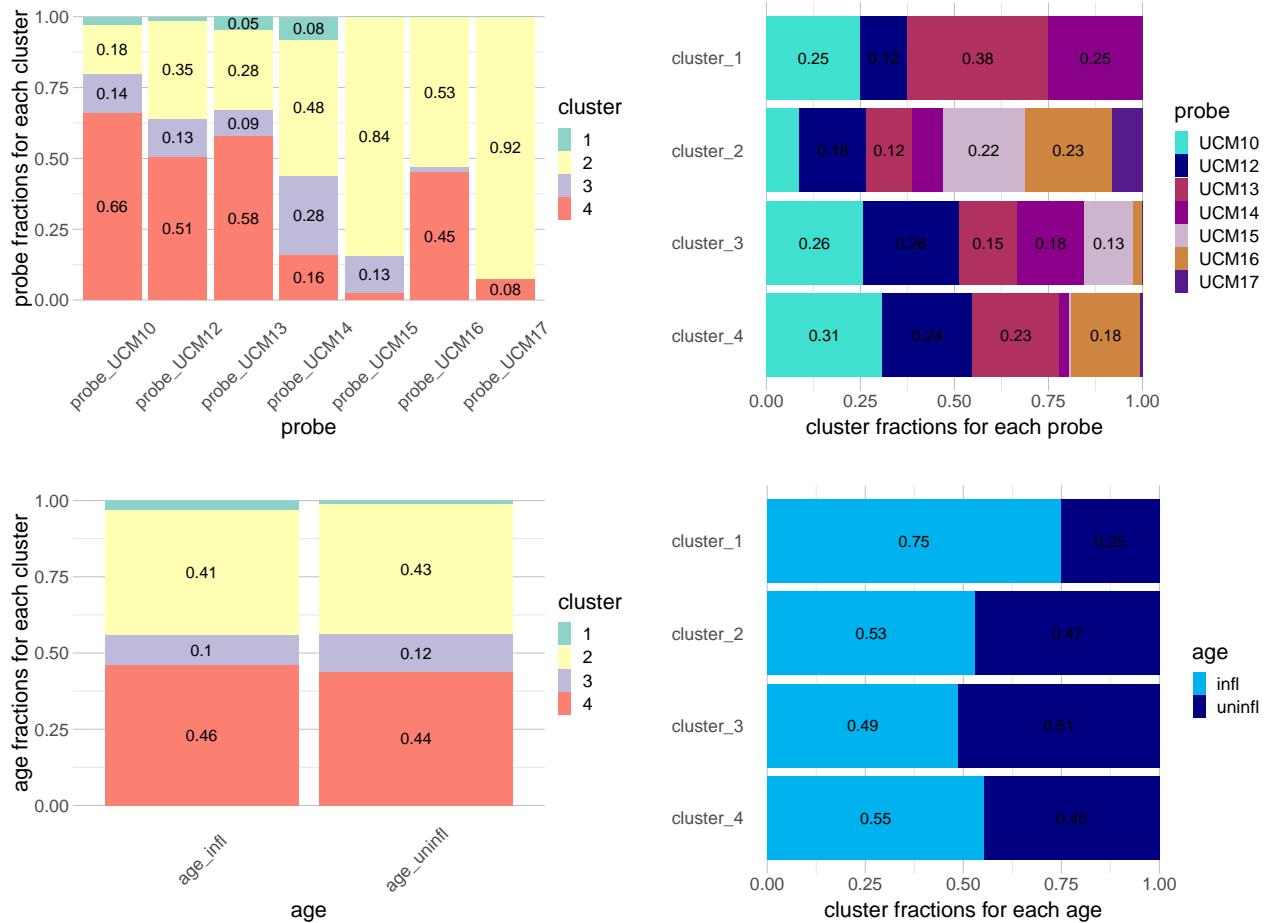
data: probeTable
X-squared = 97.361, df = NA, p-value = 0.0004998

```
[1]
[1]
[1] age vs. Cluster
      age_infl age_uninfl
cluster_1      6      2
cluster_2    78     69
cluster_3    19     20
cluster_4    88     71
```

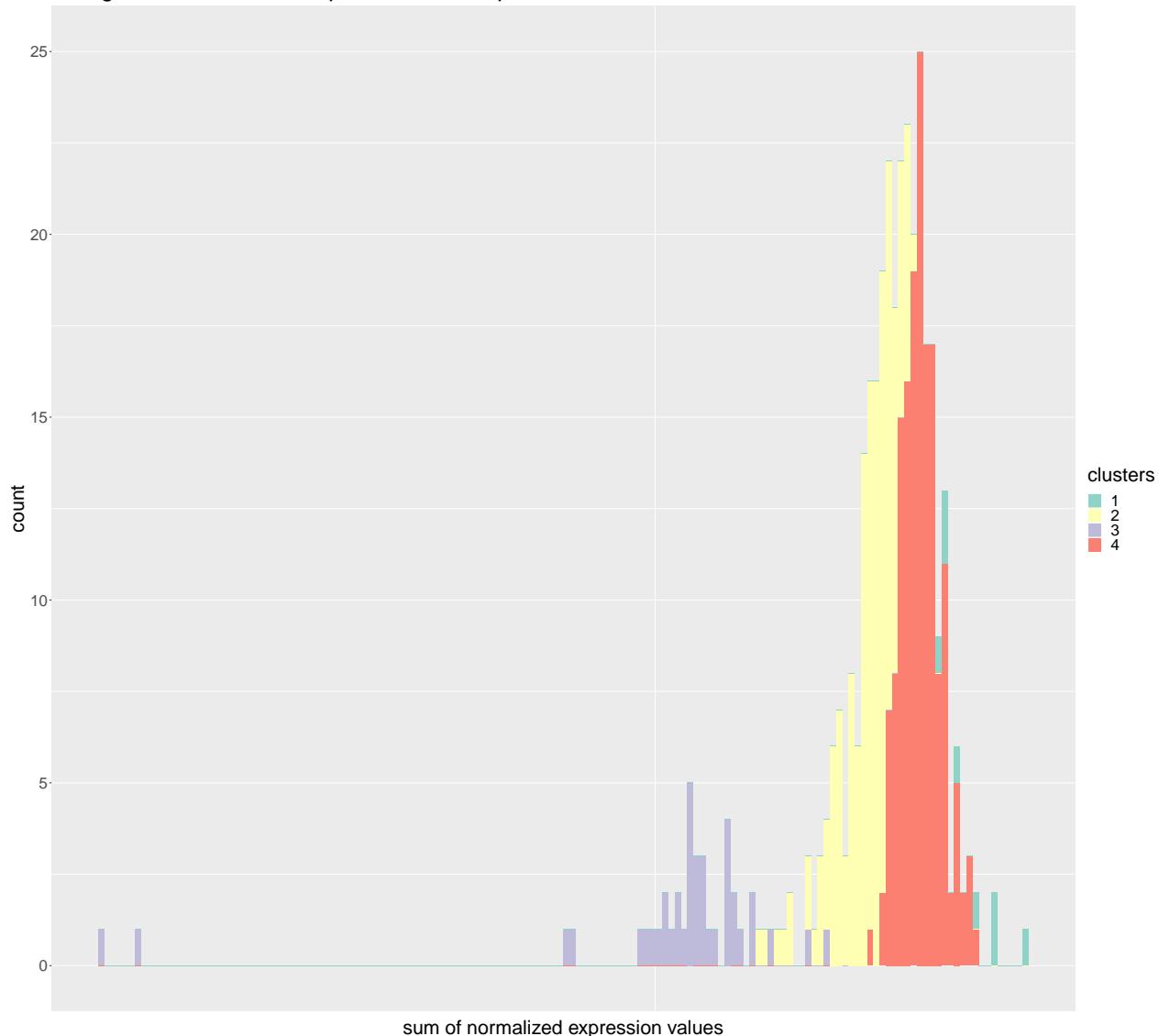
Pearson's Chi-squared test with simulated p-value (based on 2000 replicates)

data: ageTable
X-squared = 2.0255, df = NA, p-value = 0.5777



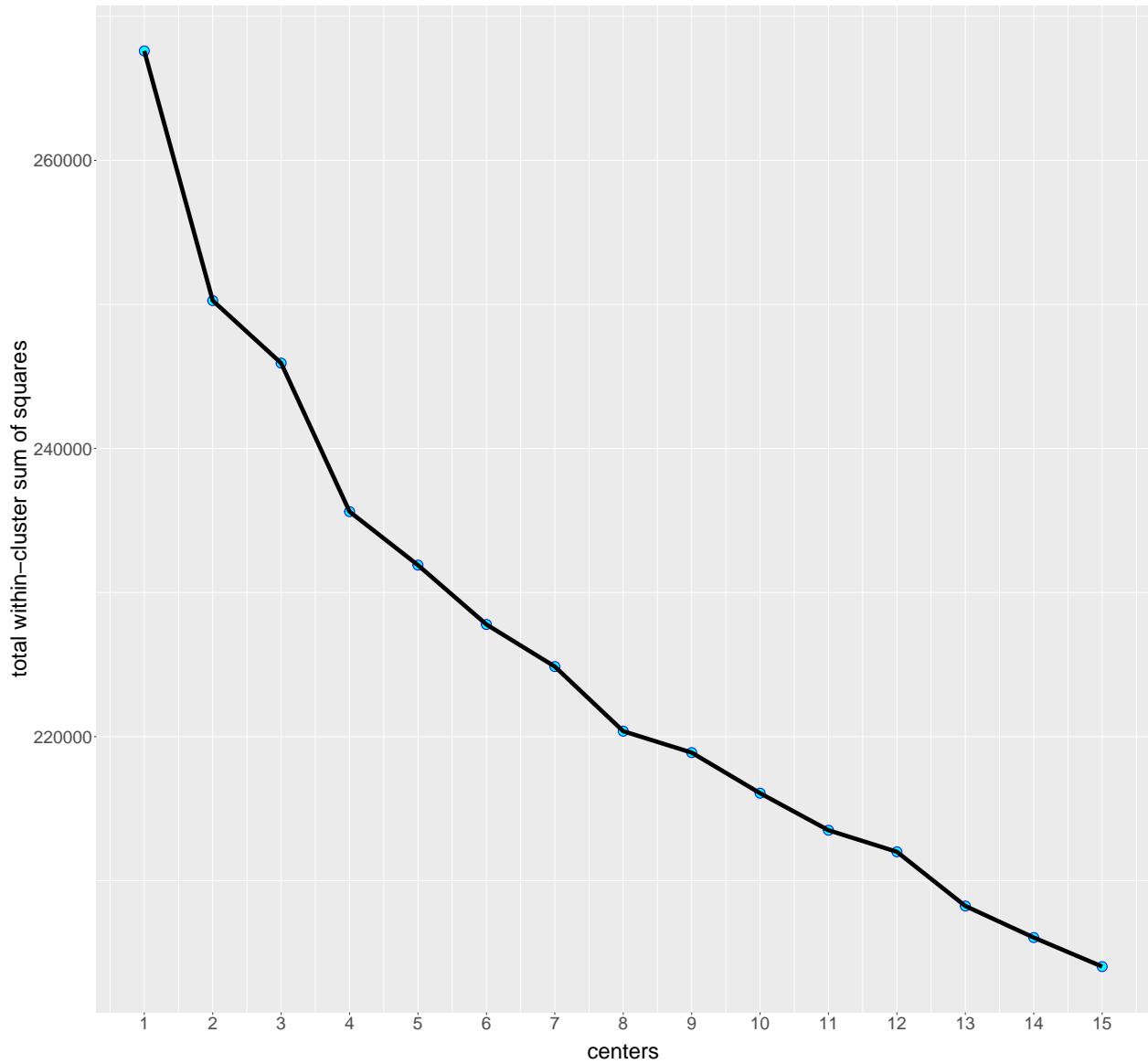


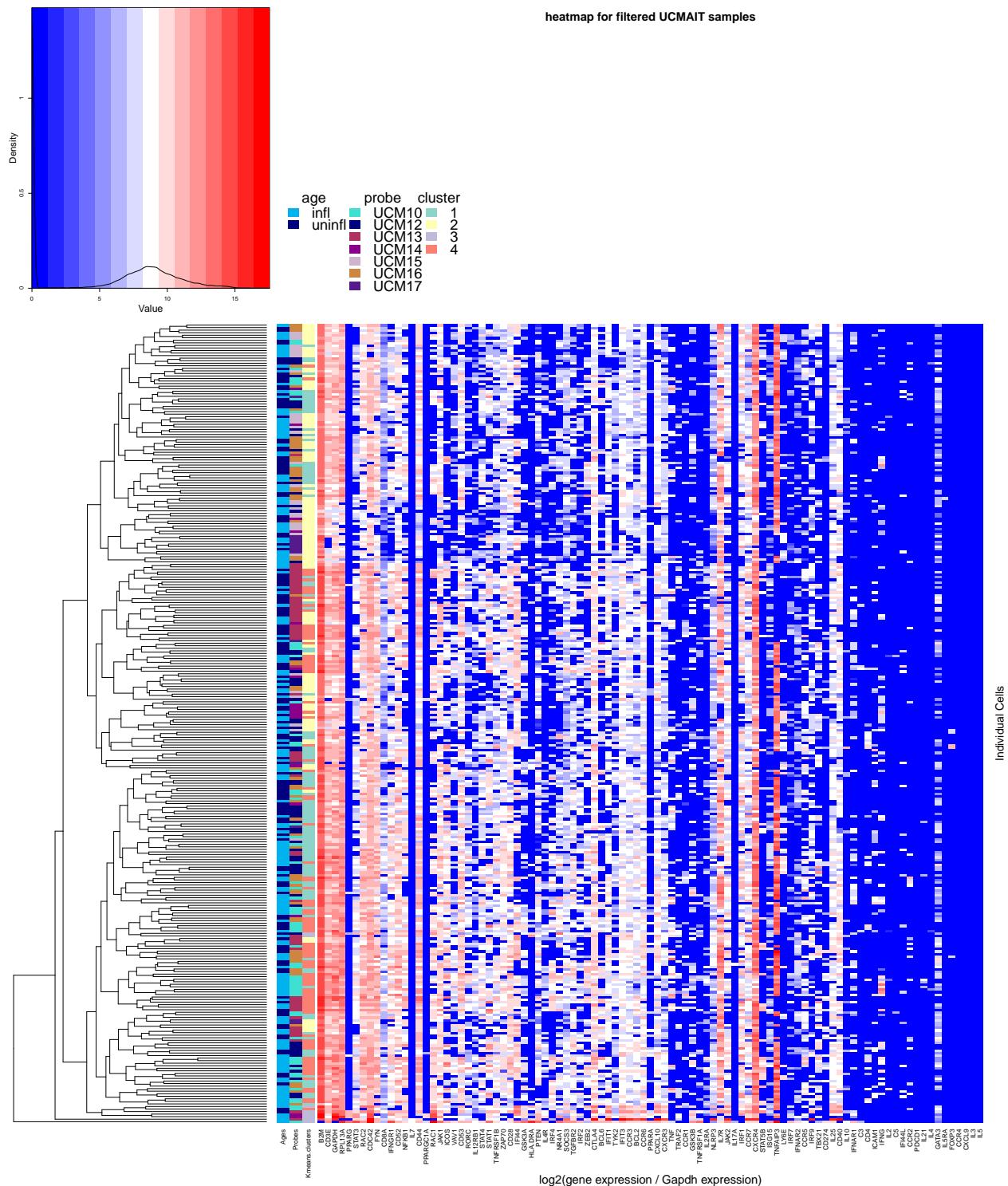
histogram of cumulative expression values per cell



39 / 353 cells were removed due to low gene expression (cluster ID of removed clusters: 3)

kmeans scree plot





[1]

[1]

[1] Probe vs. Cluster

	probe_UCM10	probe_UCM12	probe_UCM13	probe_UCM14	probe_UCM15
cluster_1	18	40	14	2	3
cluster_2	8	15	12	11	30
cluster_3	2	1	3	2	0

cluster_4	36	9	29	3	0
	probe_UCM16	probe_UCM17			
cluster_1	27	3			
cluster_2	20	10			
cluster_3	0	0			
cluster_4	16	0			

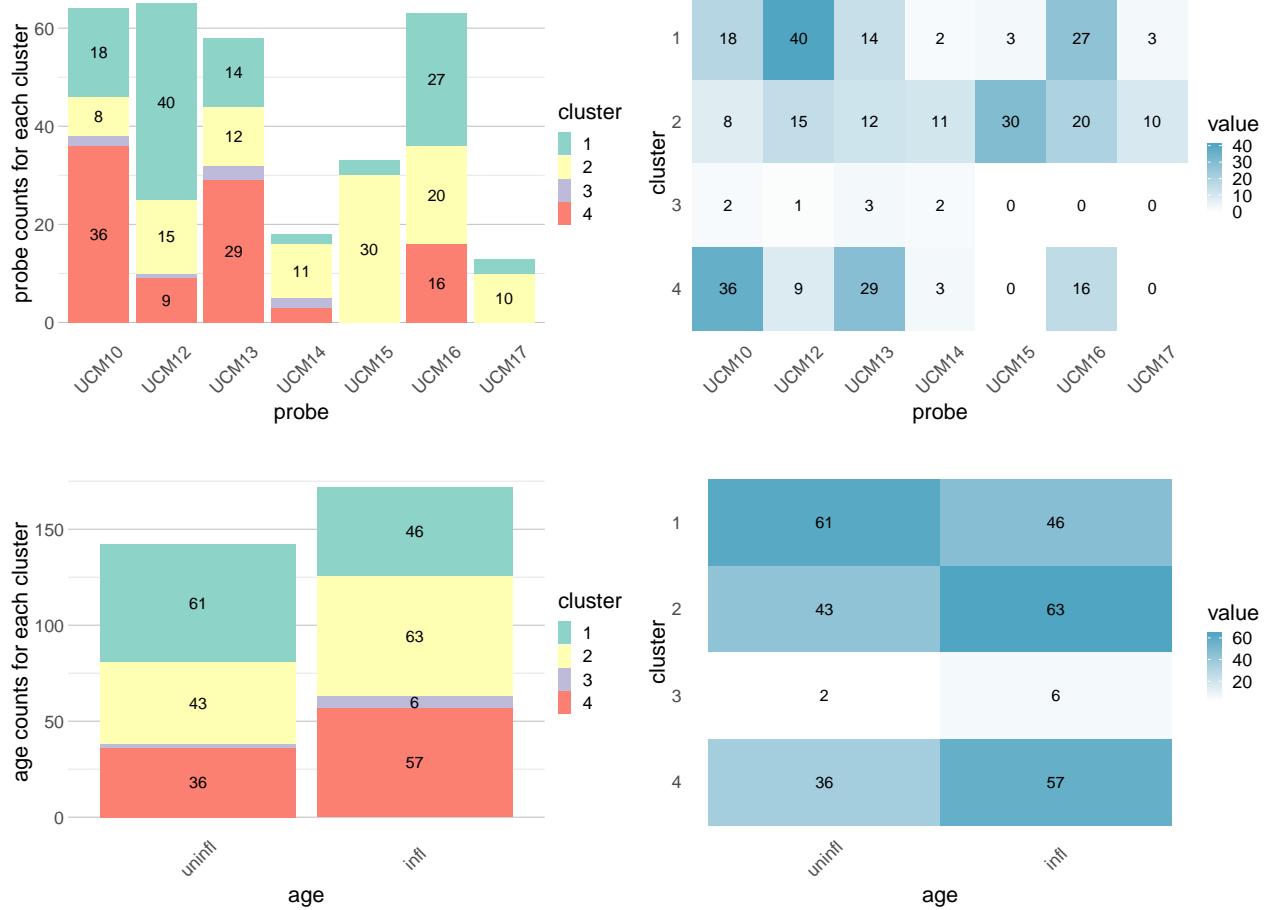
Pearson's Chi-squared test with simulated p-value (based on 2000 replicates)

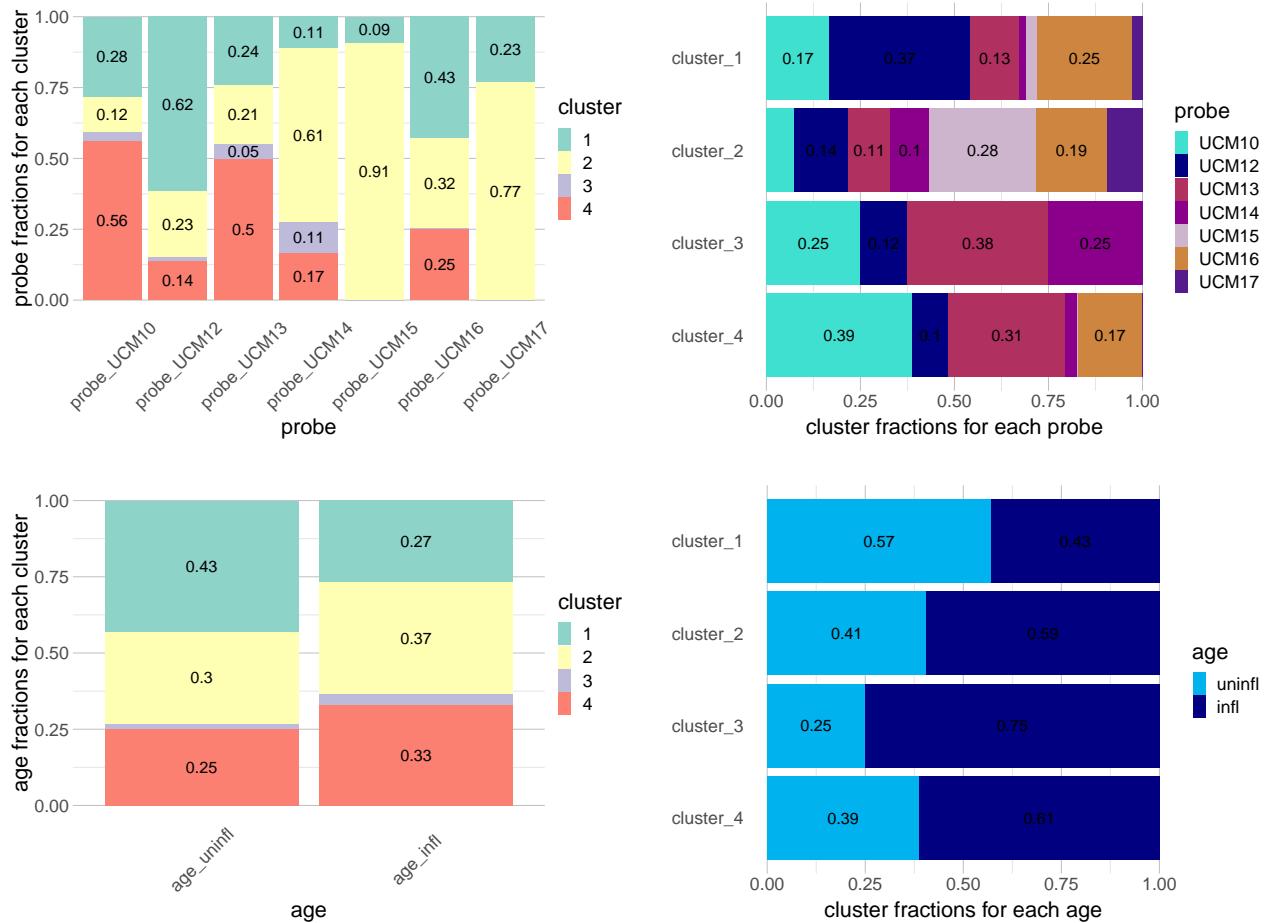
data: probeTable
X-squared = 138.13, df = NA, p-value = 0.0004998

```
[1]
[1]
[1] age vs. Cluster
      age_uninfl age_infl
cluster_1      61      46
cluster_2      43      63
cluster_3       2       6
cluster_4      36      57
```

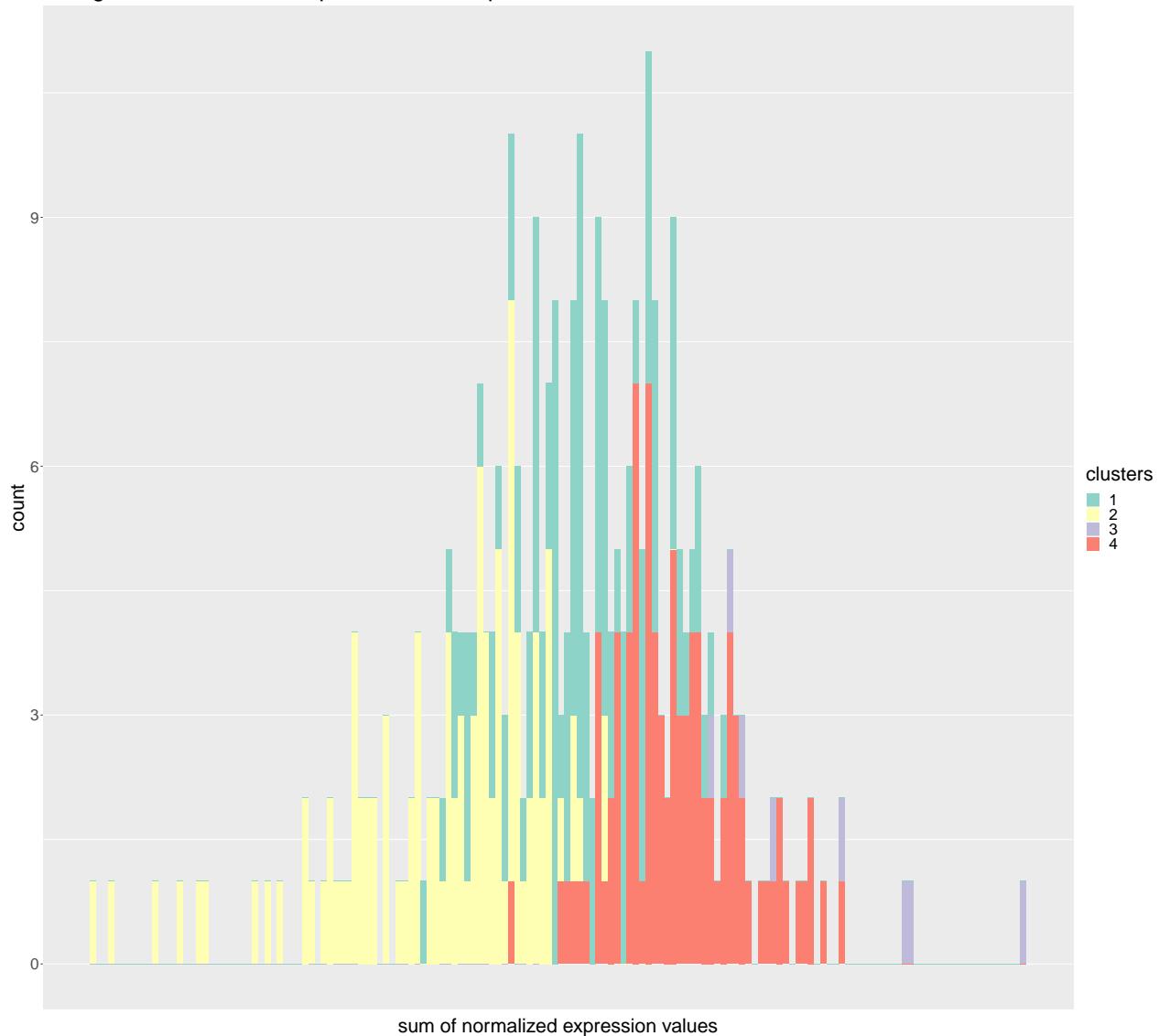
Pearson's Chi-squared test with simulated p-value (based on 2000 replicates)

data: ageTable
X-squared = 9.8419, df = NA, p-value = 0.02149





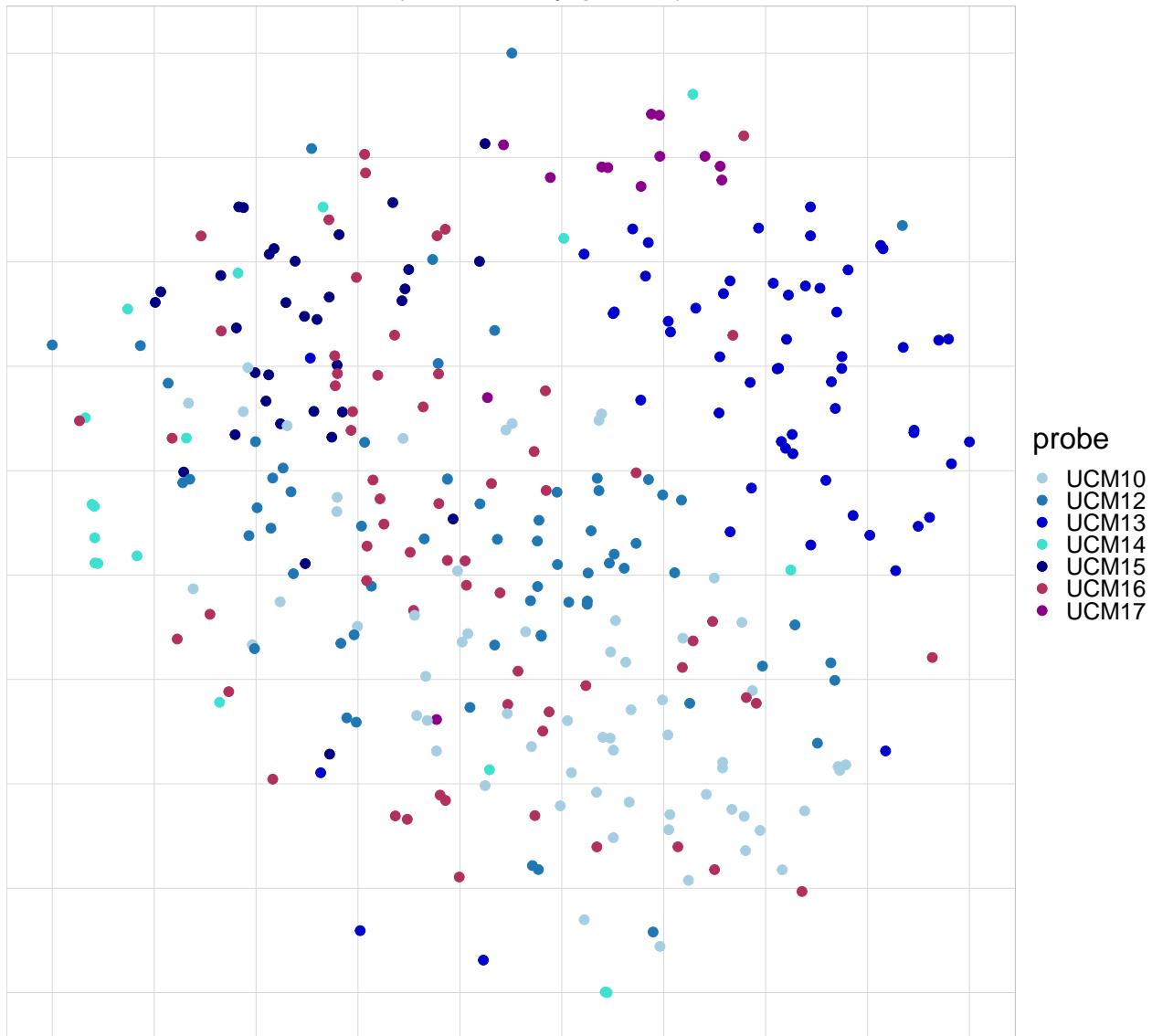
histogram of cumulative expression values per cell



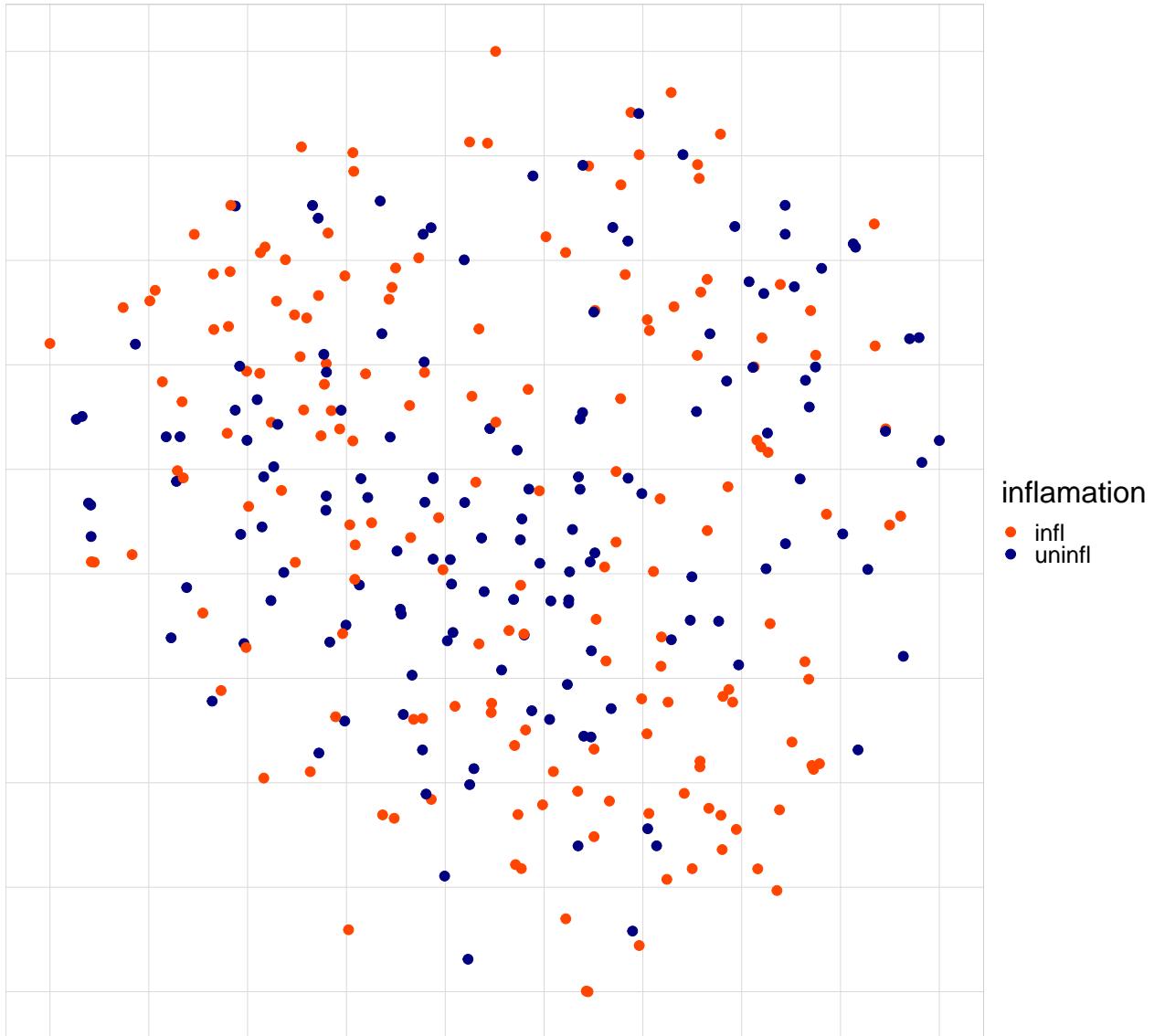
t-SNE between tissues (colored by kmeans.cluster)



t-SNE between tissues (colored by probe)



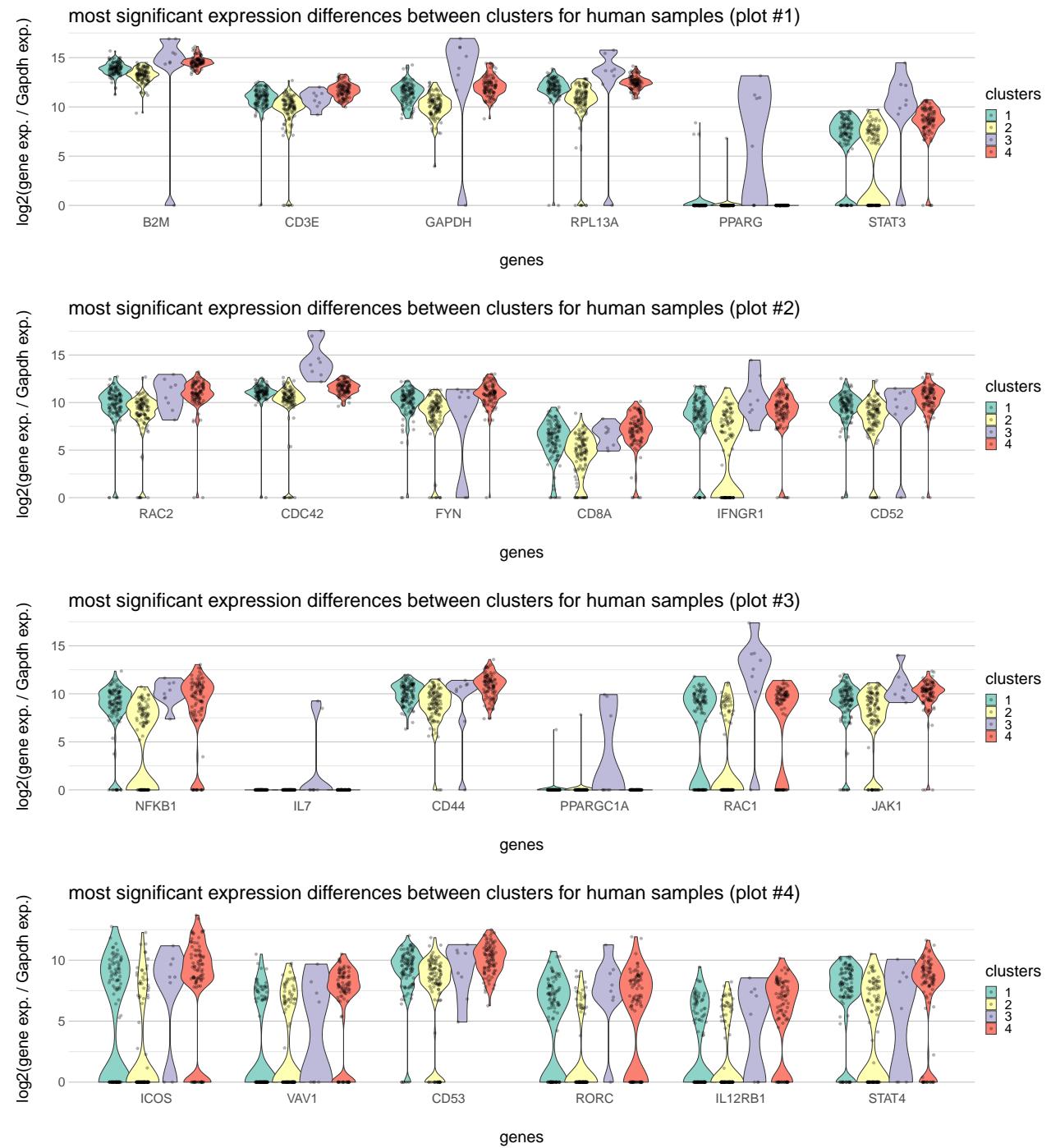
t-SNE colored by inflamed site

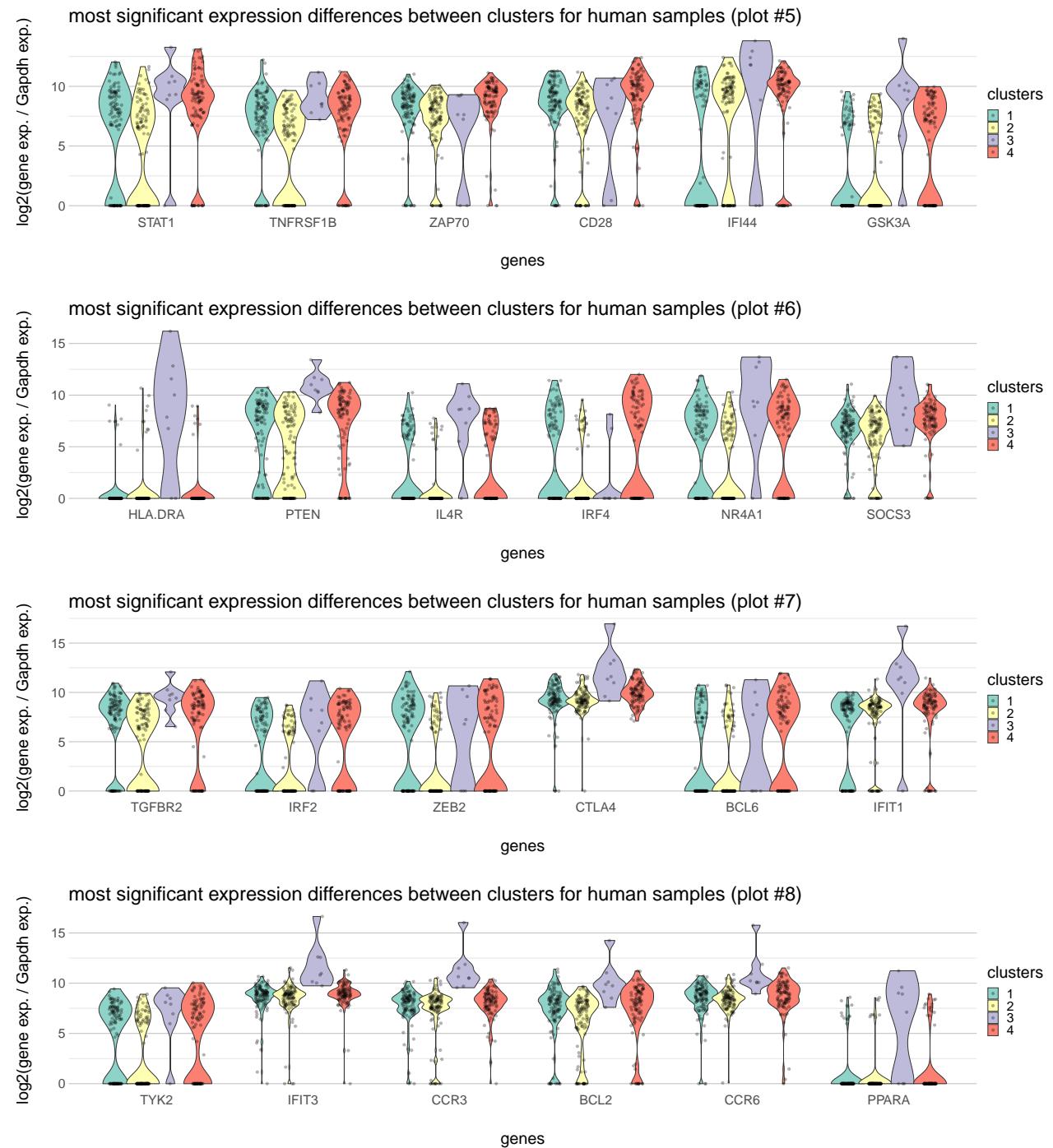


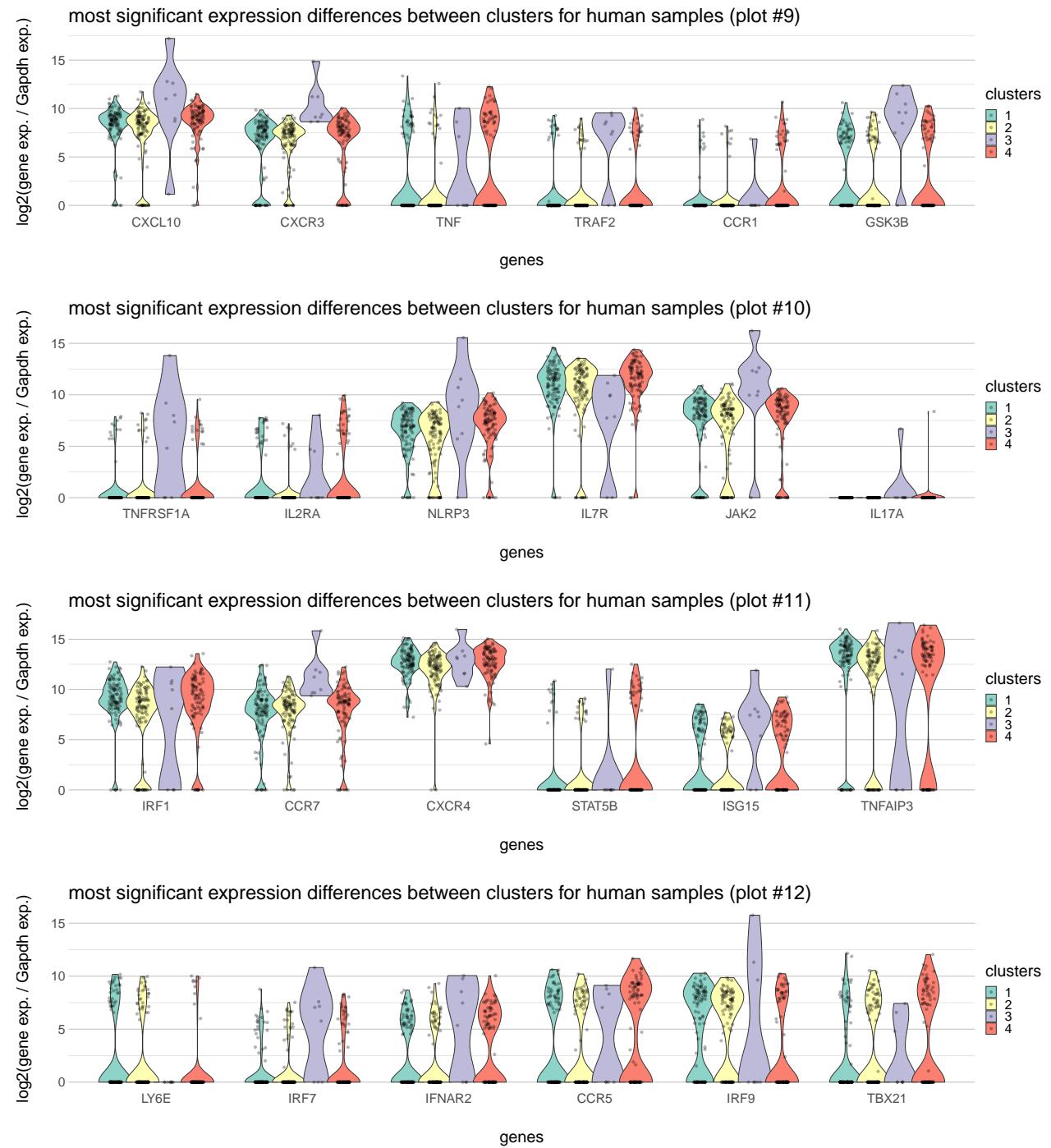
[1] Differentially expressed genes between clusters for human samples:

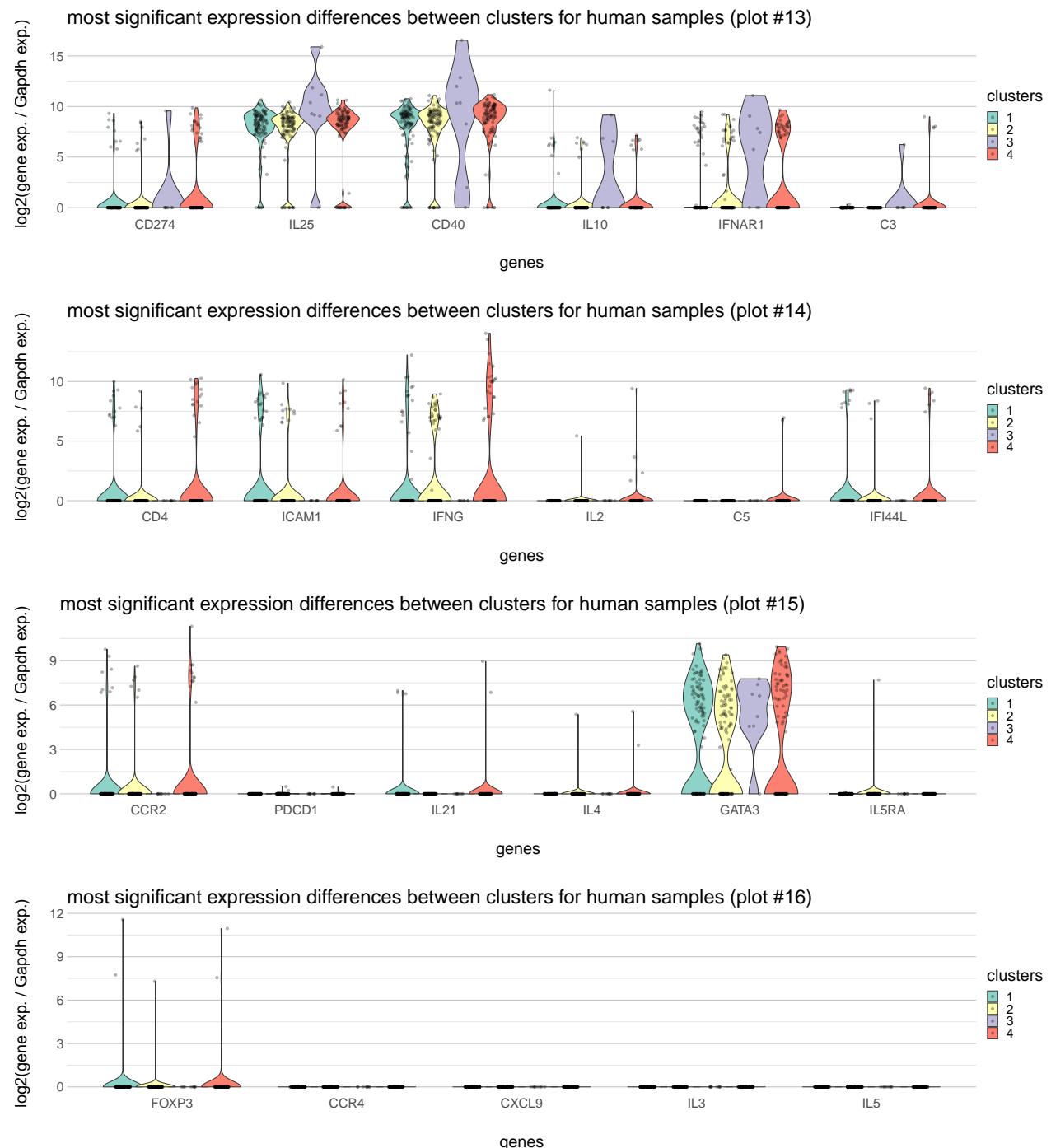
[1]	B2M: 3.313e-30	CD3E: 6.528e-25	GAPDH: 1.092e-24
[4]	RPL13A: 1.646e-23	PPARG: 6.441e-22	STAT3: 1.965e-20
[7]	RAC2: 3.728e-20	CDC42: 1.851e-19	FYN: 1.13e-17
[10]	CD8A: 2.569e-16	IFNGR1: 2.569e-16	CD52: 2.799e-16
[13]	NFKB1: 4.382e-16	IL7: 9.956e-16	CD44: 2.596e-15
[16]	PPARGC1A: 5.66e-14	RAC1: 3.284e-13	JAK1: 1.478e-12
[19]	ICOS: 8.711e-12	VAV1: 1.082e-11	CD53: 1.082e-11
[22]	RORC: 2.713e-11	IL12RB1: 3.583e-11	STAT4: 1.539e-10
[25]	STAT1: 1.627e-10	TNFRSF1B: 1.83e-10	ZAP70: 8.984e-10
[28]	CD28: 1.154e-09	IFI44: 1.239e-09	GSK3A: 1.516e-09
[31]	HLA.DRA: 2.136e-09	PTEN: 4.221e-09	IL4R: 4.343e-09
[34]	IRF4: 4.989e-09	NR4A1: 2.273e-08	SOCS3: 5.588e-08
[37]	TGFBR2: 2.592e-07	IRF2: 3.178e-07	ZEB2: 4.993e-07
[40]	CTLA4: 2.071e-06	BCL6: 2.324e-06	IFIT1: 2.324e-06
[43]	TYK2: 6.975e-06	IFIT3: 8.168e-06	CCR3: 9.529e-06

[46]	BCL2:	9.529e-06	CCR6:	2.765e-05	PPARA:	4.589e-05
[49]	CXCL10:	6.102e-05	CXCR3:	7.294e-05	TNF:	8.866e-05
[52]	TRAF2:	0.0001101	CCR1:	0.0002083	GSK3B:	0.0002476
[55]	TNFRSF1A:	0.0002476	IL2RA:	0.0002593	NLRP3:	0.0002735
[58]	IL7R:	0.0003189	JAK2:	0.0003484	IL17A:	0.0003663
[61]	IRF1:	0.000463	CCR7:	0.0006707	CXCR4:	0.0008973
[64]	STAT5B:	0.001662	ISG15:	0.002672	TNFAIP3:	0.002771
[67]	LY6E:	0.002895	IRF7:	0.00476	IFNAR2:	0.004773
[70]	CCR5:	0.005307	IRF9:	0.008425	TBX21:	0.008425
[73]	CD274:	0.01119	IL25:	0.01232	CD40:	0.01574
[76]	IL10:	0.01703	IFNAR1:	0.01809	C3:	0.02003
[79]	CD4:	0.02299				





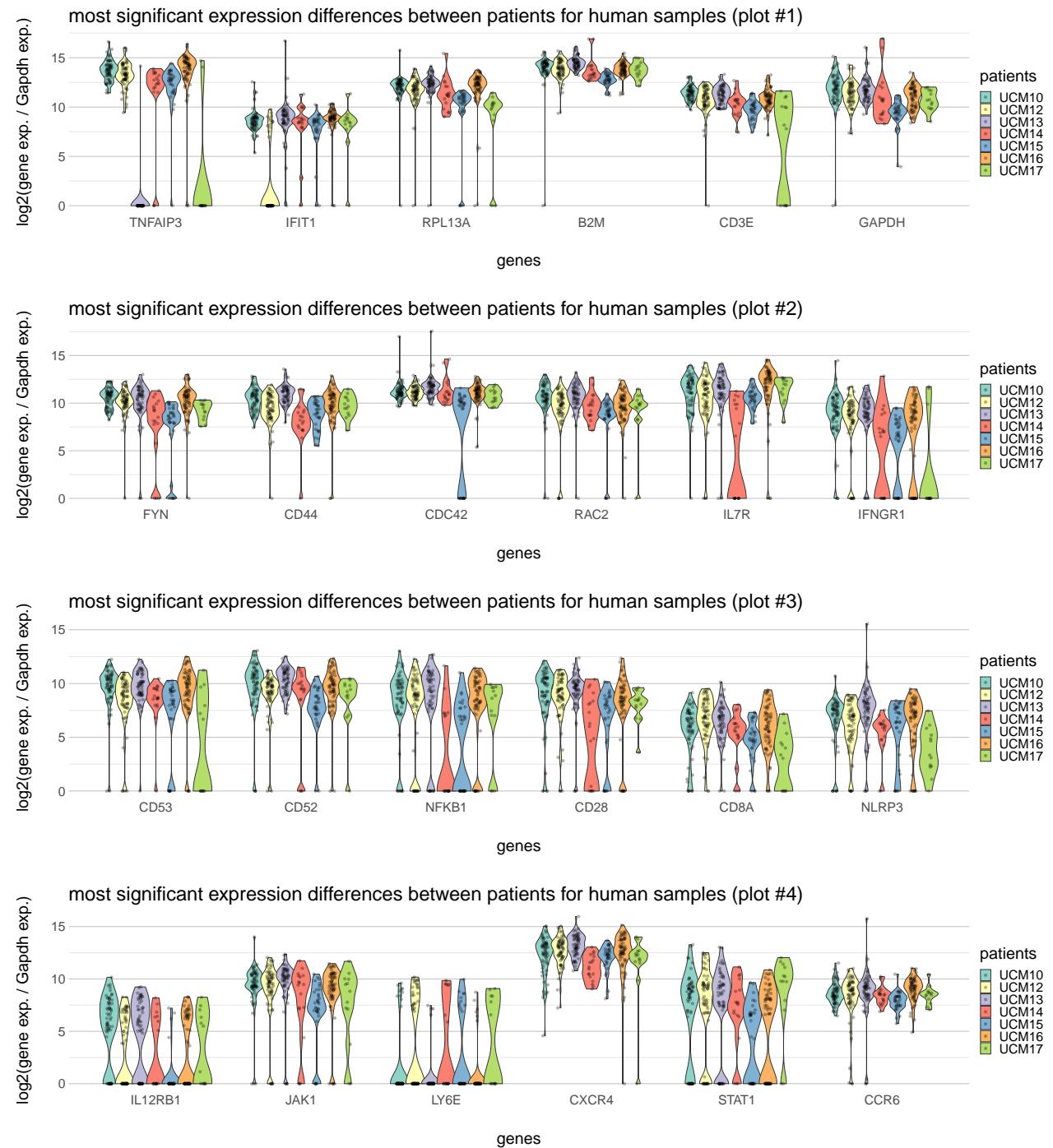


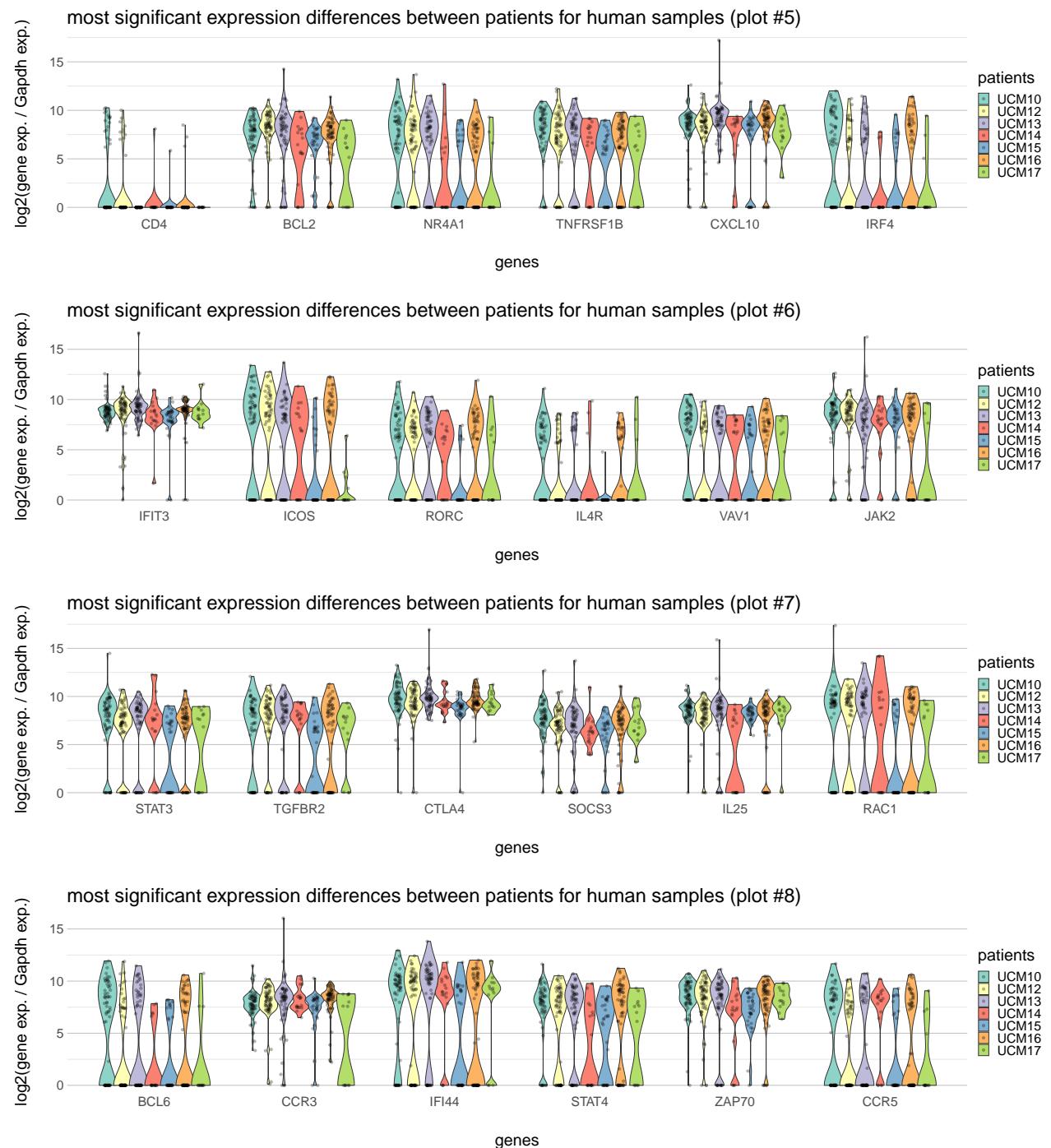


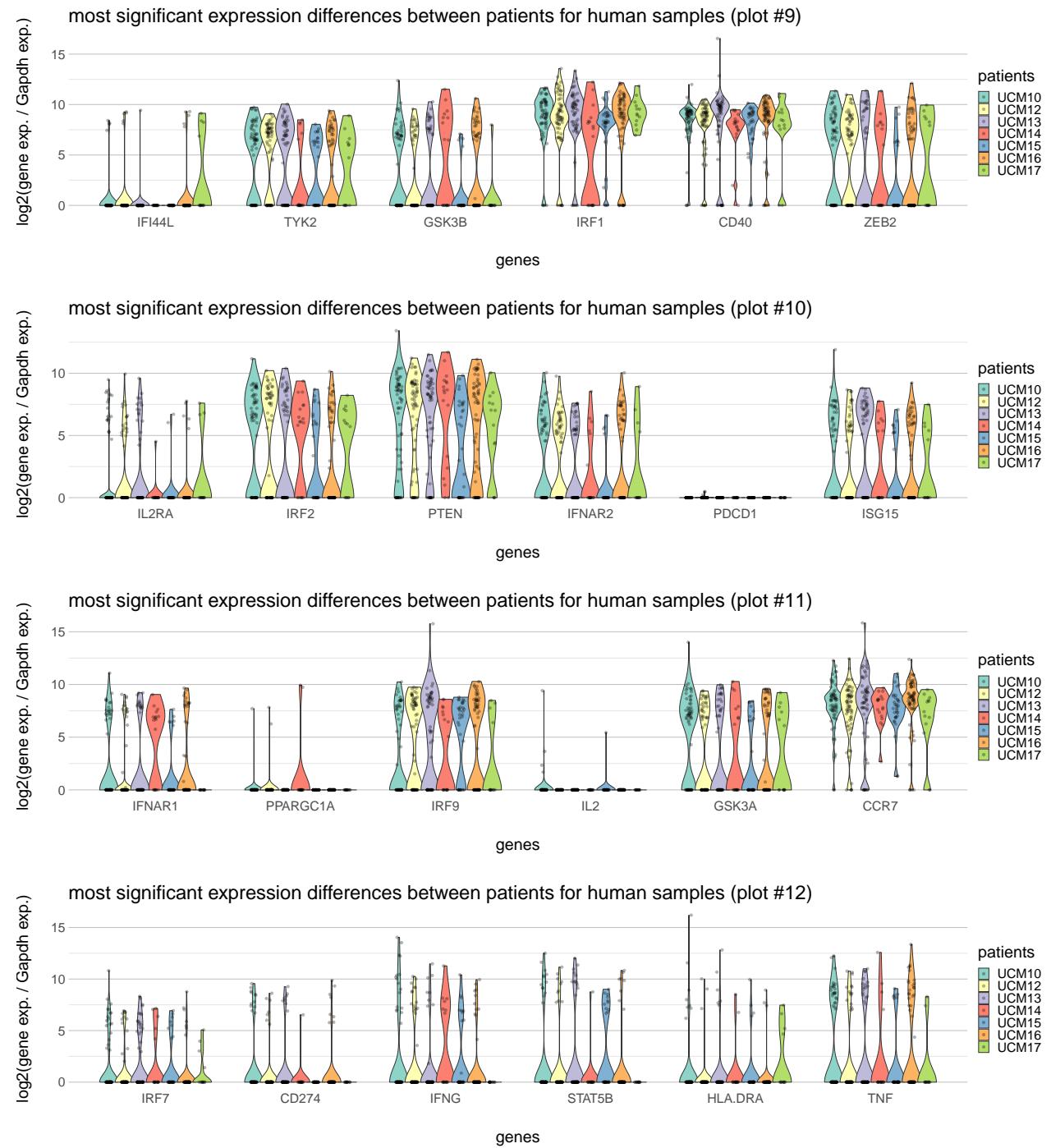
[1] Differentially expressed genes between patients for human samples:

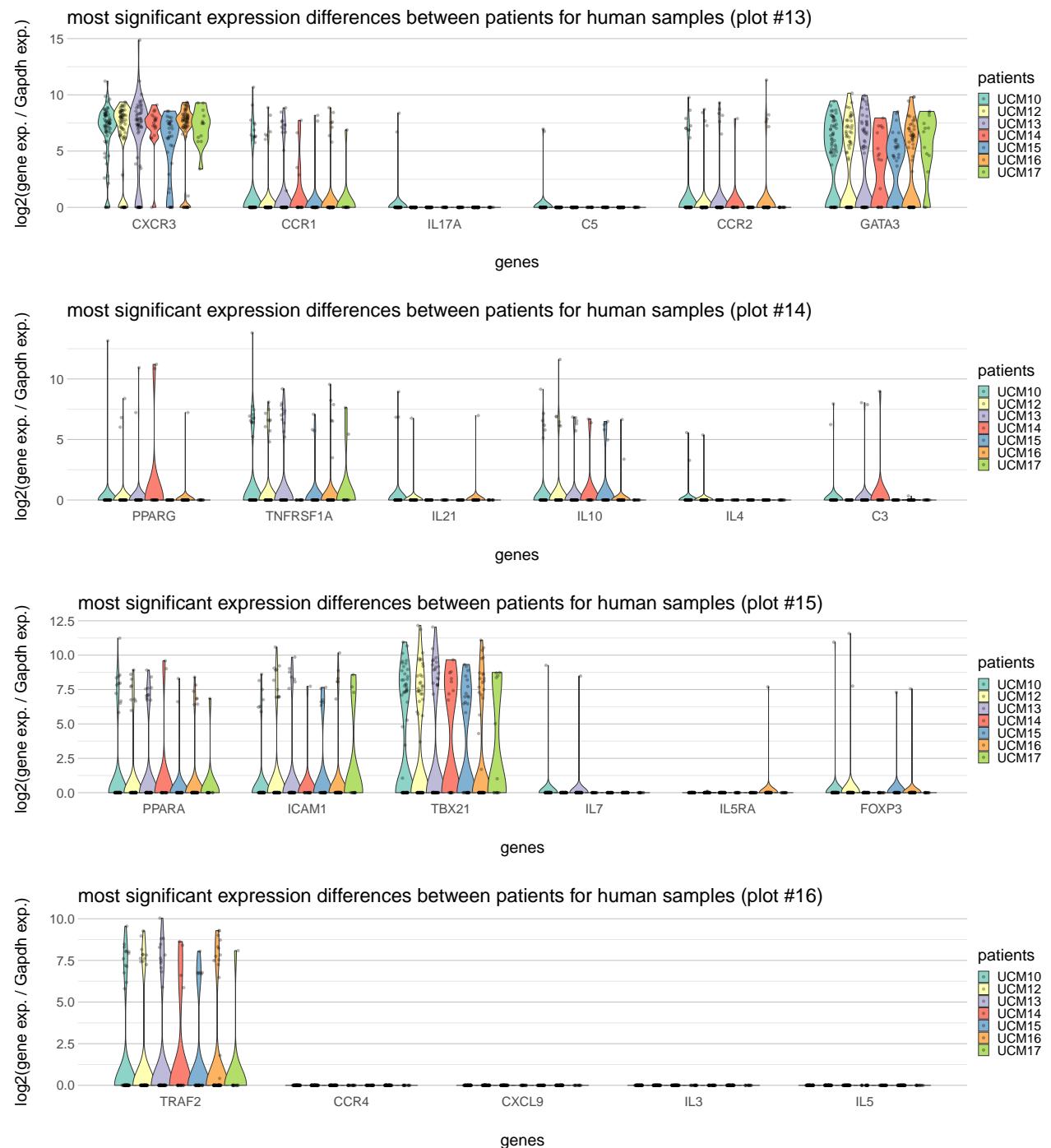
[1] TNFAIP3: 2.572e-32	IFIT1: 1.732e-20	RPL13A: 3.553e-18
[4] B2M: 2.099e-16	CD3E: 5.184e-14	GAPDH: 9.582e-14
[7] FYN: 2.01e-13	CD44: 3.061e-13	CDC42: 4.833e-13
[10] RAC2: 1.705e-10	IL7R: 2.943e-10	IFNGR1: 1.286e-09
[13] CD53: 2.077e-09	CD52: 3.287e-09	NFKB1: 5.505e-09
[16] CD28: 3.638e-08	CD8A: 3.004e-07	NLRP3: 4.372e-07
[19] IL12RB1: 4.449e-07	JAK1: 6.962e-07	LY6E: 2.289e-06
[22] CXCR4: 4.687e-06	STAT1: 6.676e-06	CCR6: 1.61e-05
[25] CD4: 2.045e-05	BCL2: 2.287e-05	NR4A1: 2.461e-05

[28]	TNFRSF1B:	2.834e-05	CXCL10:	9.249e-05	IRF4:	9.791e-05
[31]	IFIT3:	0.0001033	ICOS:	0.0001095	RORC:	0.0001095
[34]	IL4R:	0.0001095	VAV1:	0.0002757	JAK2:	0.0002976
[37]	STAT3:	0.0003512	TGFBR2:	0.0004853	CTLA4:	0.0005711
[40]	SOCS3:	0.0006585	IL25:	0.0006787	RAC1:	0.0008061
[43]	BCL6:	0.0008061	CCR3:	0.0009925	IFI44:	0.001038
[46]	STAT4:	0.001095	ZAP70:	0.001413	CCR5:	0.005393
[49]	IFI44L:	0.006803	TYK2:	0.007147	GSK3B:	0.007579
[52]	IRF1:	0.008065	CD40:	0.008065	ZEB2:	0.009188
[55]	IL2RA:	0.01032	IRF2:	0.01889	PTEN:	0.02464
[58]	IFNAR2:	0.02563	PDCD1:	0.02606	ISG15:	0.03245
[61]	IFNAR1:	0.03456	PPARGC1A:	0.04052		









[1] Differentially expressed genes between tissues for human samples:
[1] IRF4: 0.1664

