

# CellSP Report

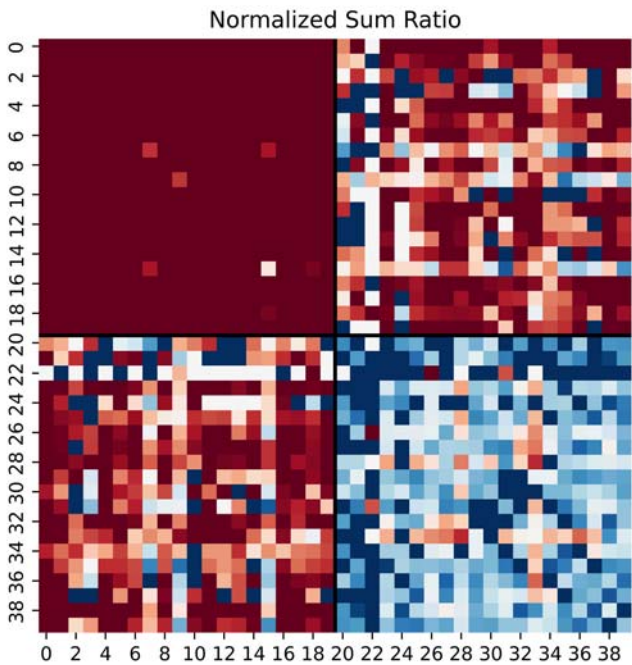
Show10▼entries

Search:

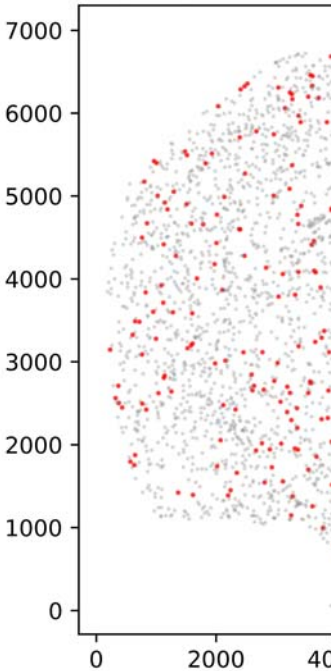
Mode	Pattern	#Cells	#G
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instant_biclustering	Colocalization	211	
instant_biclustering	Colocalization	127	
instant_biclustering	Colocalization	303	
instant_biclustering	Colocalization	120	
instant_biclustering	Colocalization	134	
instant_biclustering	Colocalization	286	
instant_biclustering	Colocalization	34	
sprawl_biclustering	Peripheral	61	
sprawl_biclustering	Radial	181	

Showing 1 to 10 of 24 entries

Previous123Next

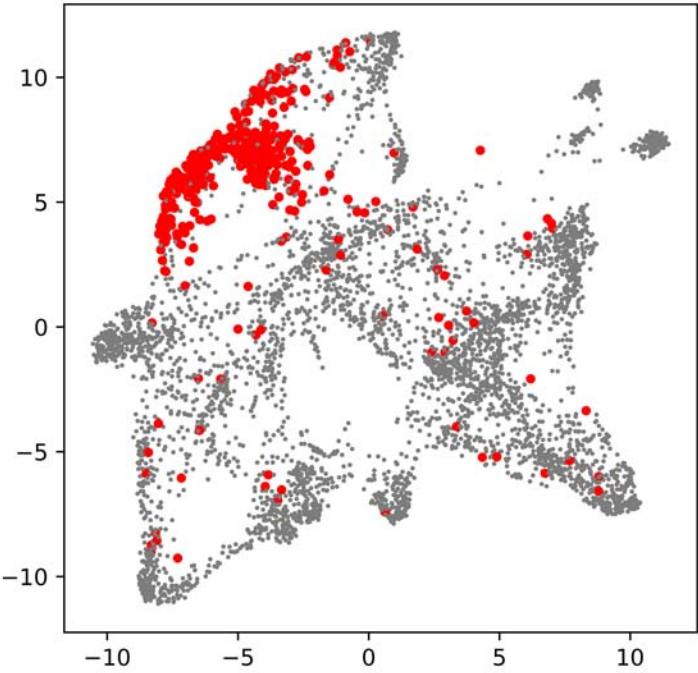


- Module 0
- #Cells: 423
  - #Genes: 20
  - Genes:  
cldn5,ly6a,paqr5,fgd5,acvr11,p  
ecam1,kdr,cobll1,pglyrp1,car4,  
slfn5,sox17,nostrin,mecom,zfp  
366,ccn2,adgrl4,emcn,fn1,cd9  
3

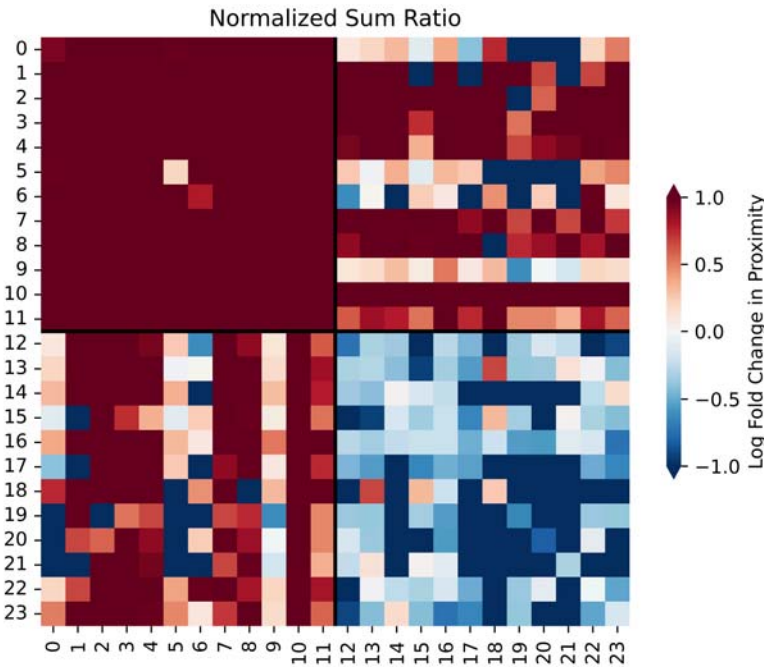


GO Genes

GO Cells

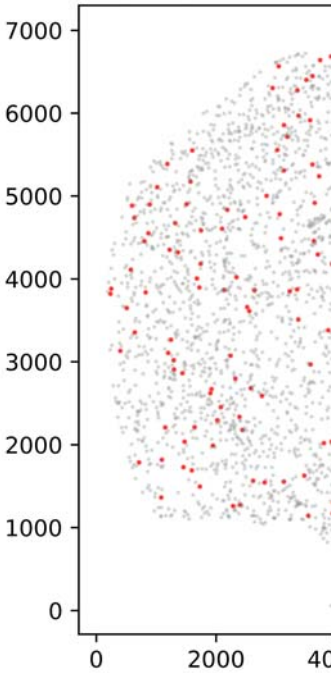


Term	P-Value	Term	P-Value
angiogenesis	4.36e-06	extracellular matrix	9.82e-17
blood vessel morphogenesis	3.07e-05	external encapsulating structure	1.03e-16
blood vessel development	1.89e-04	collagen-containing extracellular matrix	6.02e-15
tube morphogenesis	2.32e-04	extracellular space	8.86e-12
vasculature development	2.56e-04	extracellular region	1.03e-11



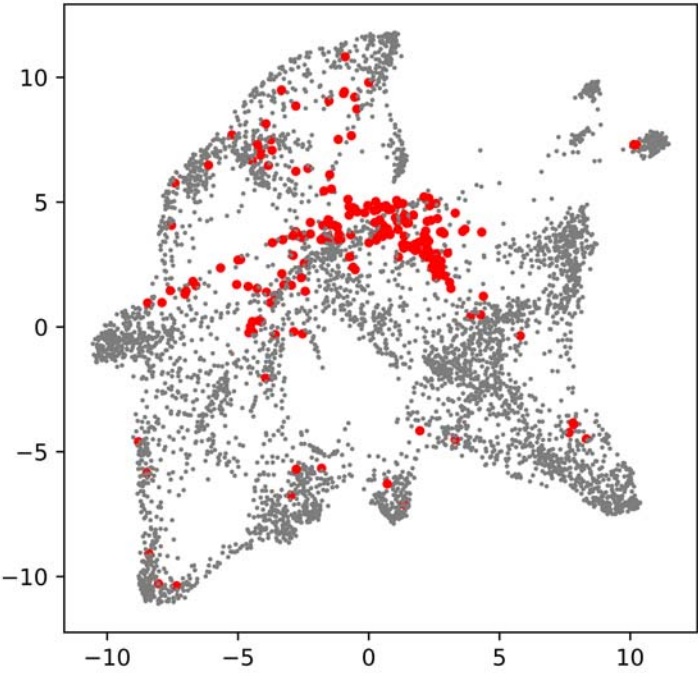
Module 1

- #Cells: 211
- #Genes: 12
- Genes:  
lyz2,spi1,cd300c2,laptm5,trem2,plekha2,arhgap25,cd53,siglech,kctd12,ikzf1,cd68

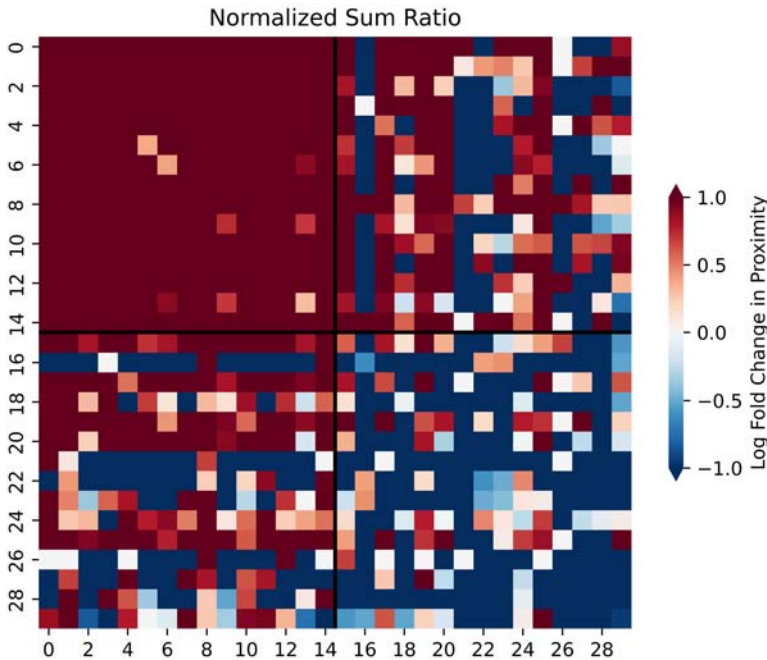


GO Genes

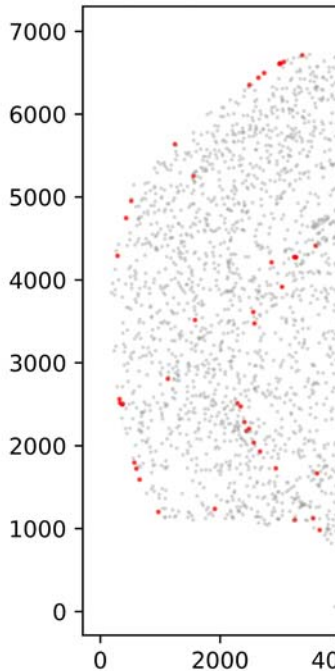
GO Cells



Term	P-Value	Term	P-Value
cellular response to lipopolysaccharide	9.09e-05	S100 protein binding	2.10e-06
cellular response to molecule of bacterial origin	9.09e-05	external encapsulating structure organization	3.14e-06
cellular response to biotic stimulus	9.09e-05	extracellular matrix organization	3.14e-06
regulation of innate immune response	3.53e-04	extracellular structure organization	3.22e-06
positive regulation of cytokine production	3.53e-04	collagen-containing extracellular matrix	1.46e-05

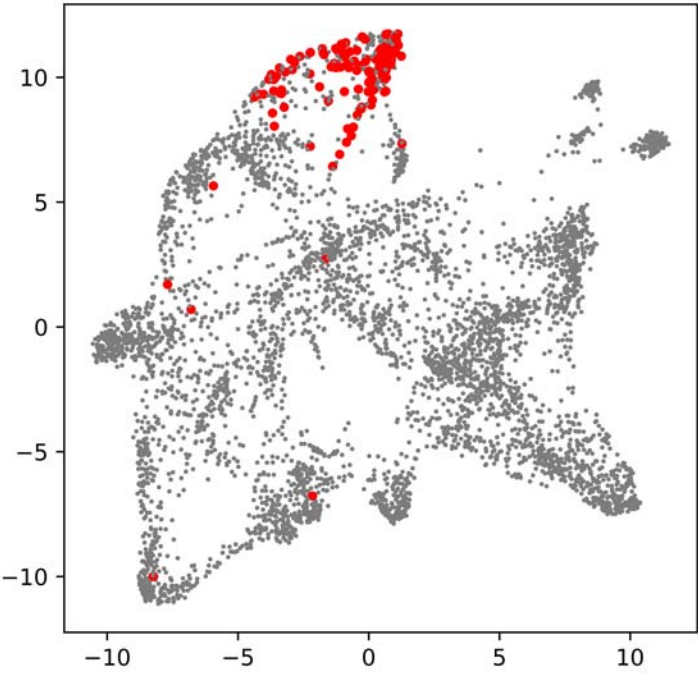


- Module 2
- #Cells: 127
  - #Genes: 15
  - Genes: col1a1, igf2, lyz2, cyp1b1, spp1, pdgfra, ccn2, gjb2, dcn, col6a1, fn1, fmod, slc13a4, igfbp4, aldh1a2

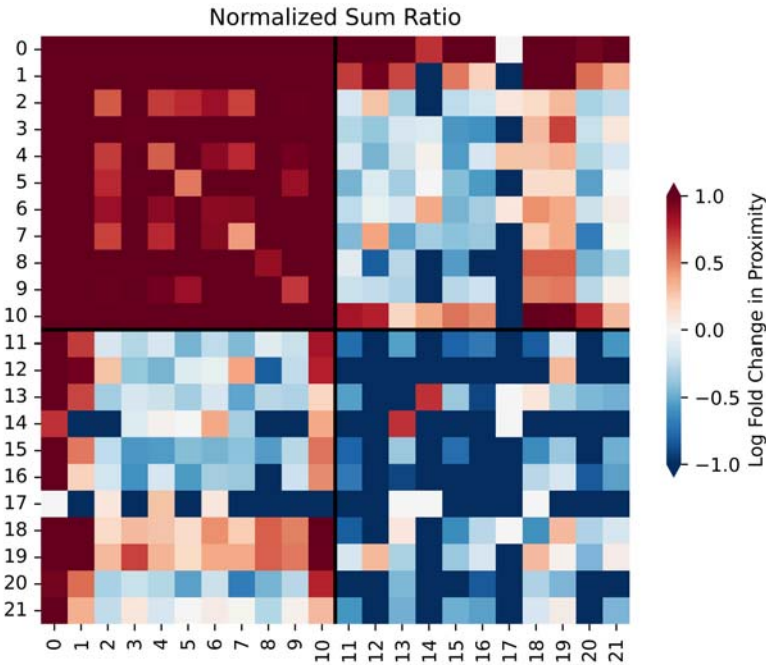


GO Genes

GO Cells

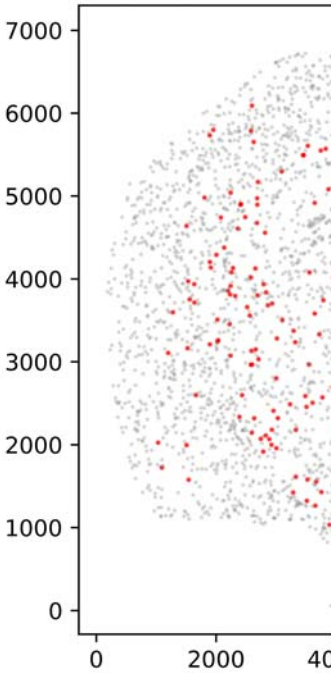


Term	P-Value	Term	P-Value
extracellular space	1.81e-05	extracellular region	1.99e-14
response to hormone	2.00e-05	extracellular space	1.05e-13
extracellular structure organization	2.10e-05	extracellular matrix	5.85e-12
extracellular matrix organization	2.10e-05	external encapsulating structure	6.08e-12
external encapsulating structure organization	2.10e-05	cell periphery	1.04e-11



Module 3

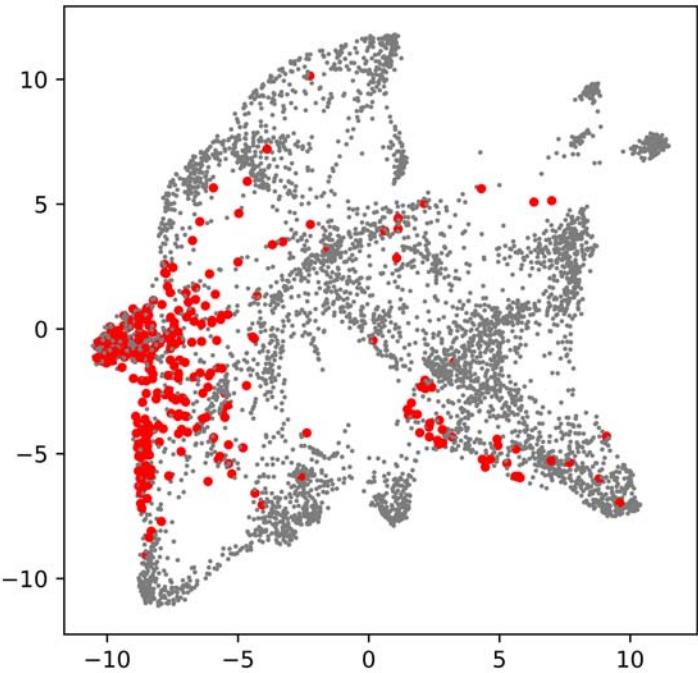
- #Cells: 303
- #Genes: 11
- Genes:  
opaln,sox10,tmem163,zfp536,  
clmn,dpy19l1,sema6a,prox1,ad  
amtsl1,gng12,gjc3



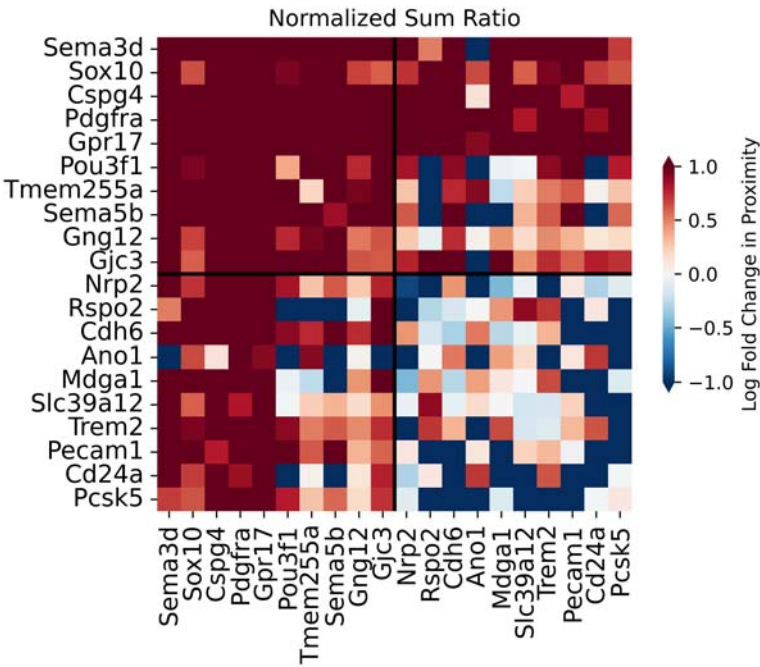


GO Genes

GO Cells

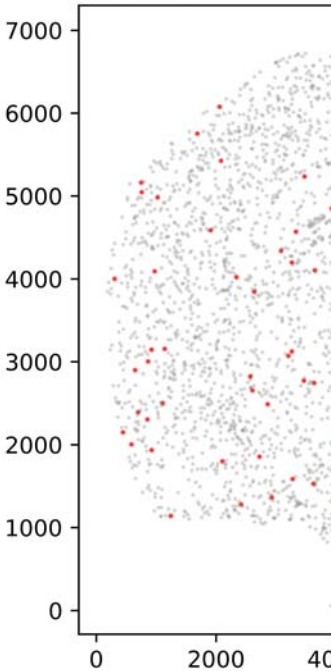


Term	P-Value	Term	P-Value
myelination	1.26e-03	myelination	6.99e-09
axon ensheathment	1.26e-03	ensheathment of neurons	8.00e-09
ensheathment of neurons	1.26e-03	axon ensheathment	8.00e-09
organelle outer membrane	5.38e-03	regulation of oligodendrocyte differentiation	2.61e-06
outer membrane	5.38e-03	glial cell development	2.90e-06



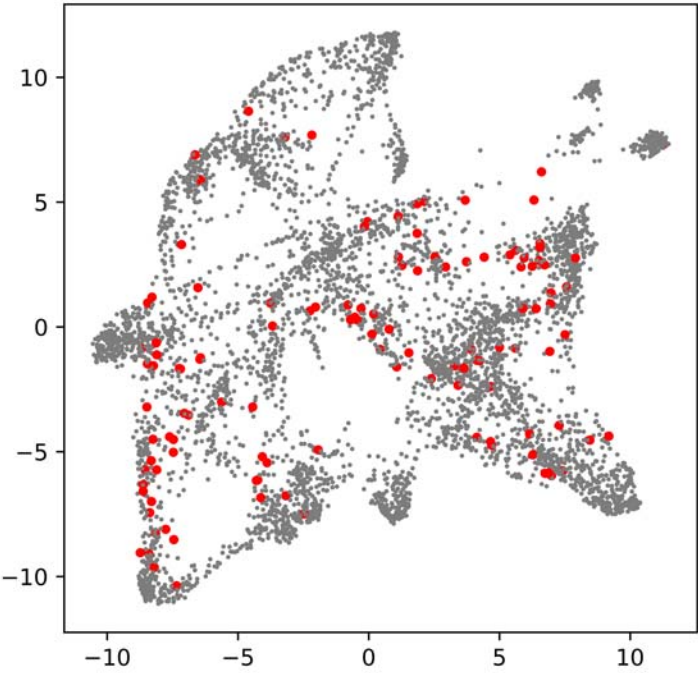
Module 4

- #Cells: 120
- #Genes: 10
- Genes: sema3d,sox10,cspg4,pdgfra,gpr17,pou3f1,tmem255a,sema5b,gng12,gjc3

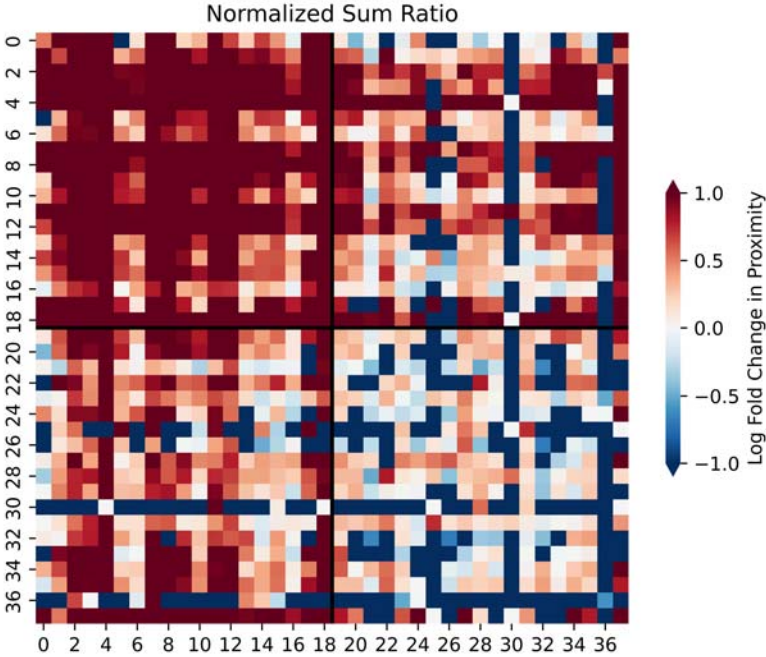


GO Genes

GO Cells

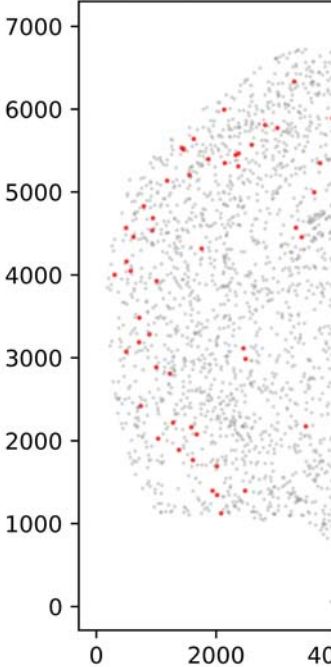


Term	P-Value	Term	P-Value
myelination	9.28e-04	ensheathme nt of neurons	4.77e-09
axon ensheathme nt	9.28e-04	axon ensheathme nt	4.77e-09
ensheathme nt of neurons	9.28e-04	myelination	6.46e-08
mesenchym al cell migration	2.49e-03	regulation of oligodendro cyte differentiatio n	3.56e-07
neural crest cell migration	2.49e-03	oligodendro cyte differentiatio n	1.86e-06



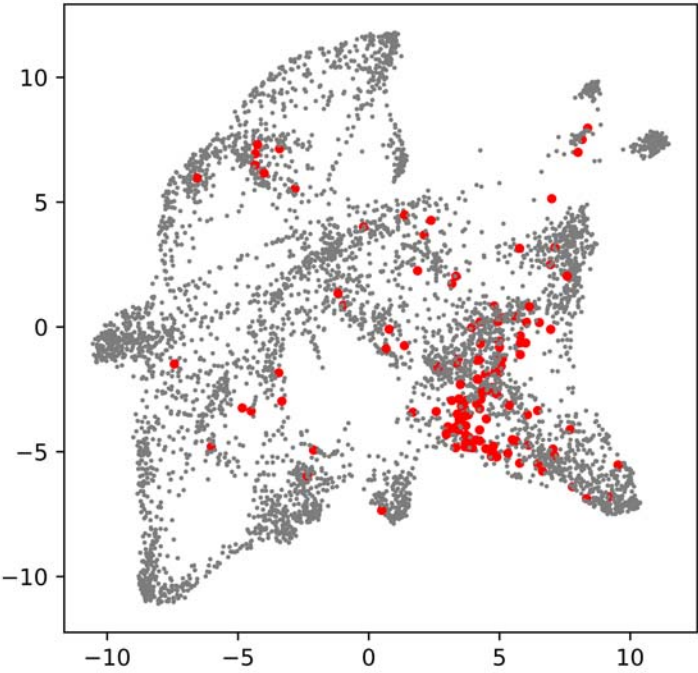
Module 5

- #Cells: 134
- #Genes: 19
- Genes:  
cbln4,thsd7a,gad1,kcnmb2,sst ,sema3e,necab1,gad2,rbp4,btb d11,parm1,rab3b,pvalb,plcx3, cdh13,dner,vat1l,pdyn,cort

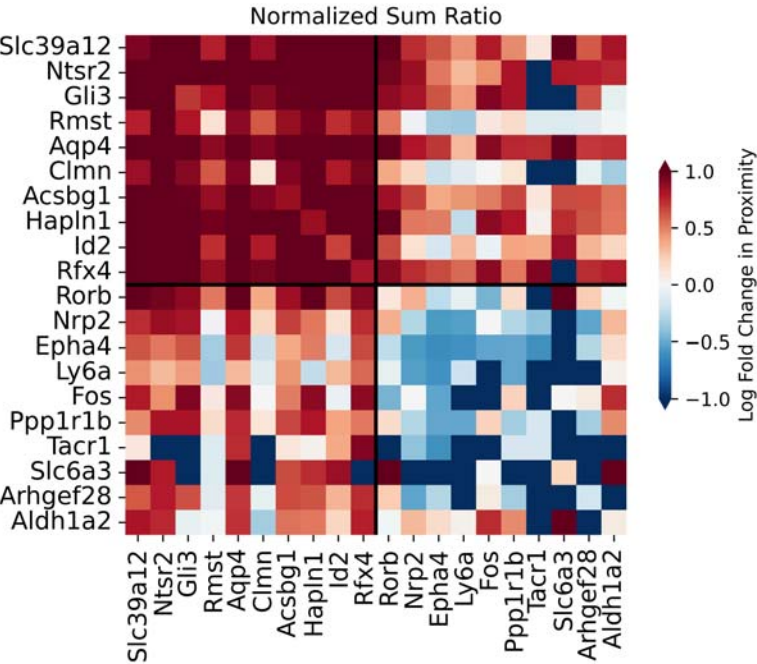


GO Genes

GO Cells

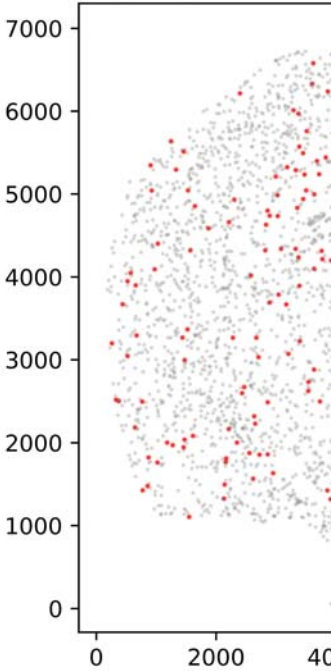


Term	P-Value	Term	P-Value
GABA-ergic synapse	6.94e-04	cerebral cortex GABAergic interneuron differentiation	1.72e-04
glutamate catabolic process	5.12e-03	interneuron migration	2.36e-04
dicarboxylic acid catabolic process	5.12e-03	pallium development	2.93e-04
glutamate metabolic process	5.12e-03	gamma-aminobutyric acid transport	3.52e-04
L-amino acid catabolic process	5.12e-03	GABAergic neuron differentiation	4.42e-04



Module 6

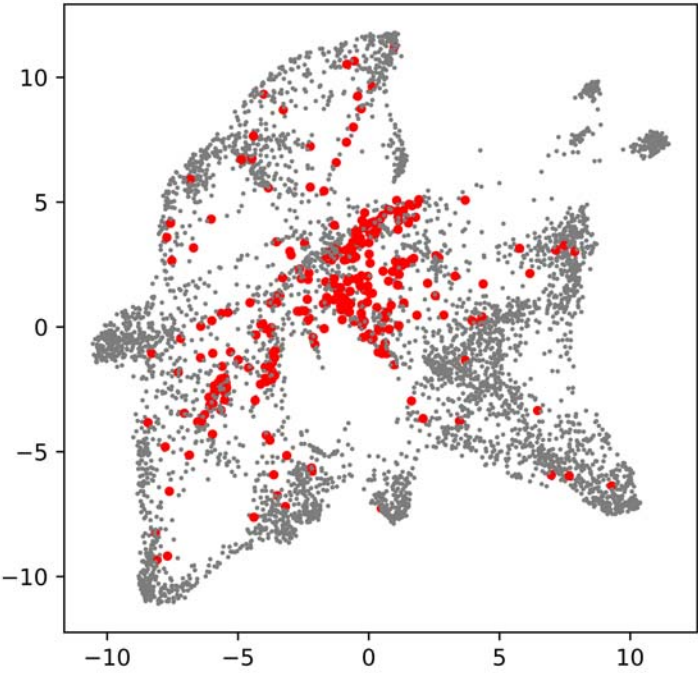
- #Cells: 286
- #Genes: 10
- Genes: slc39a12, ntsr2, gli3, rmst, aqp4, clmn, acsbg1, hapln1, id2, rfx4



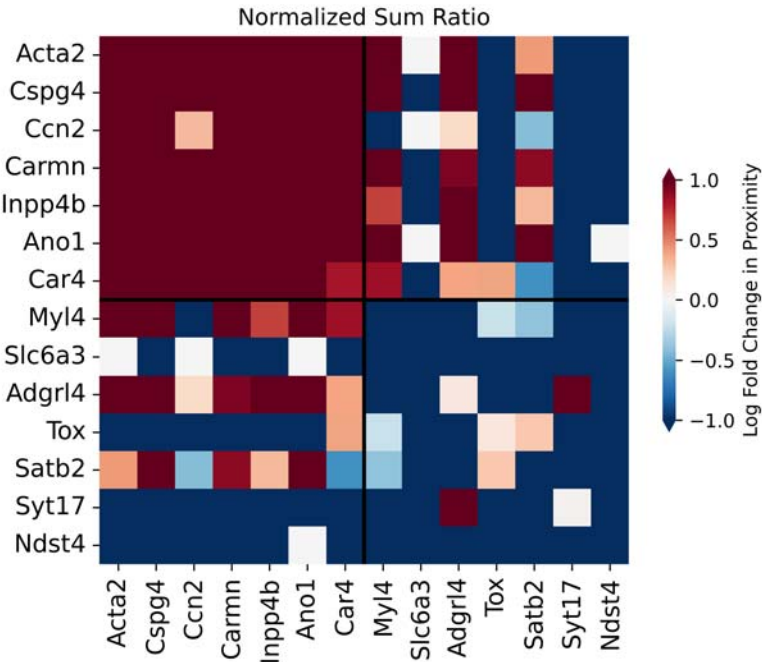


GO Genes

GO Cells

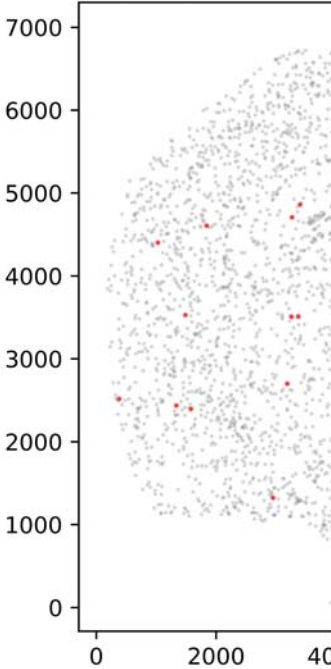


Term	P-Value	Term	P-Value
negative regulation of smoothened signaling pathway	1.20e-03	regulation of generation of precursor metabolites and energy	8.05e-05
regulation of smoothened signaling pathway	1.20e-03	positive regulation of glucose metabolic process	1.19e-04
negative regulation of lymphocyte differentiation	6.95e-03	regulation of glycogen catabolic process	1.87e-04
embryonic digestive tract morphogenesis	6.95e-03	regulation of carbohydrate catabolic process	2.40e-04
neural tube development	6.95e-03	positive regulation of carbohydrate metabolic process	4.99e-04



Module 7

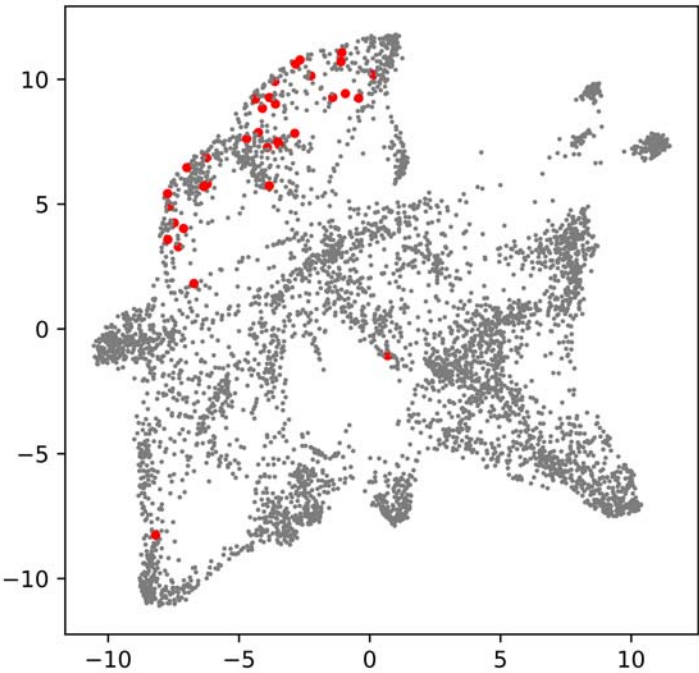
- #Cells: 34
- #Genes: 7
- Genes: acta2,cspg4,ccn2,carmn,inpp4b,ano1,car4





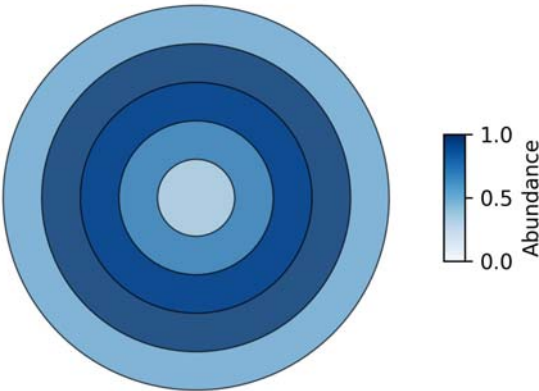
GO Genes

GO Cells

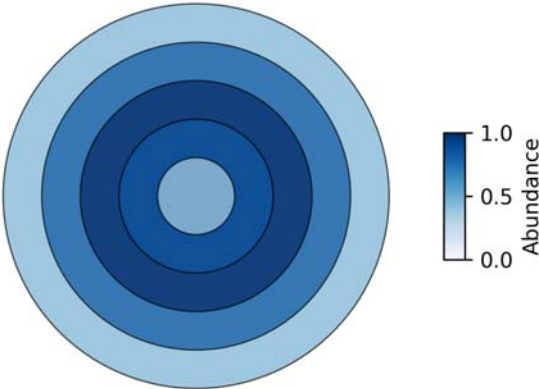


Term	P-Value	Term	P-Value
apical plasma membrane	1.61e-04	extracellular matrix	8.28e-19
apical part of cell	4.41e-04	external encapsulating structure	8.80e-19
lamellipodium	1.49e-03	collagen-containing extracellular matrix	1.39e-17
extracellular matrix	6.87e-03	extracellular region	1.29e-16
external encapsulating structure	6.87e-03	extracellular space	4.09e-16

Genes: slc13a4,aldh1a2,spp1,fmod,dcn,igf2,acta2, #Cells: 61, Pattern: Concentric



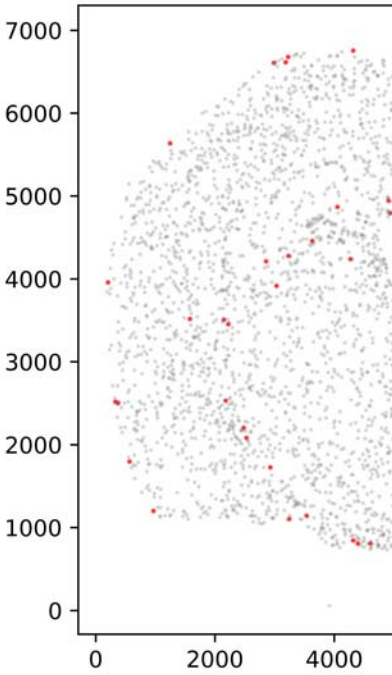
Module



Background

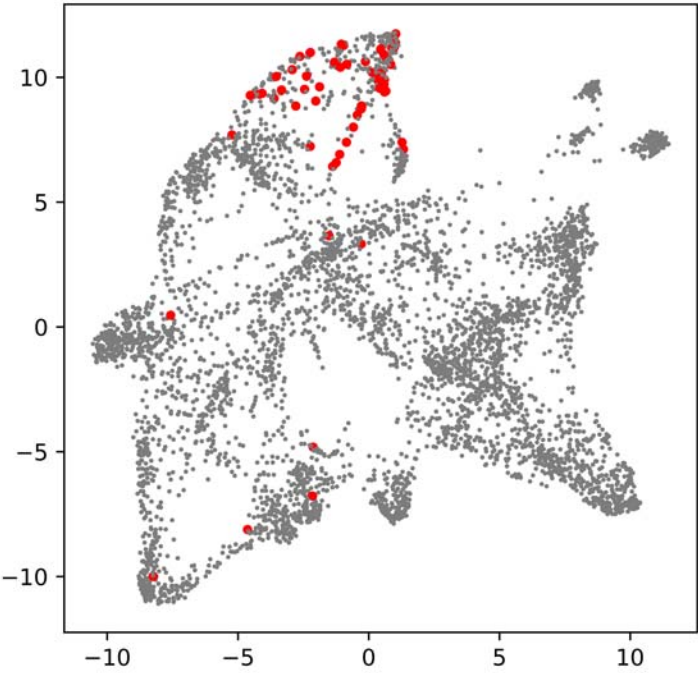
Module 0

- Pattern: Peripheral
- #Cells: 61
- #Genes: 7
- Genes: slc13a4,aldh1a2,spp1,fmod,dcn,igf2,acta2

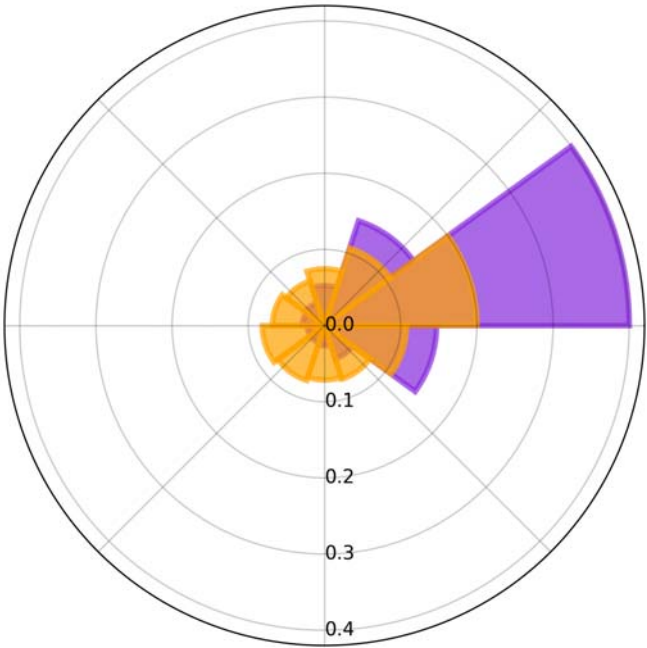


GO Genes

GO Cells

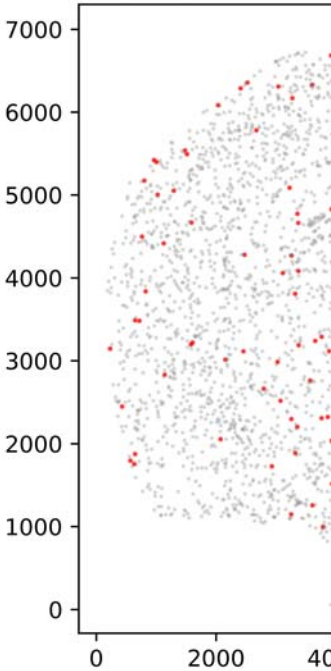


Term	P-Value	Term	P-Value
collagen-containing extracellular matrix	1.21e-03	extracellular matrix	4.03e-16
extracellular matrix	1.51e-03	external encapsulating structure	4.24e-16
external encapsulating structure	1.51e-03	extracellular region	2.23e-15
regulation of vascular endothelial cell proliferation	2.76e-03	extracellular space	5.97e-14
extracellular matrix binding	5.44e-03	collagen-containing extracellular matrix	3.26e-13



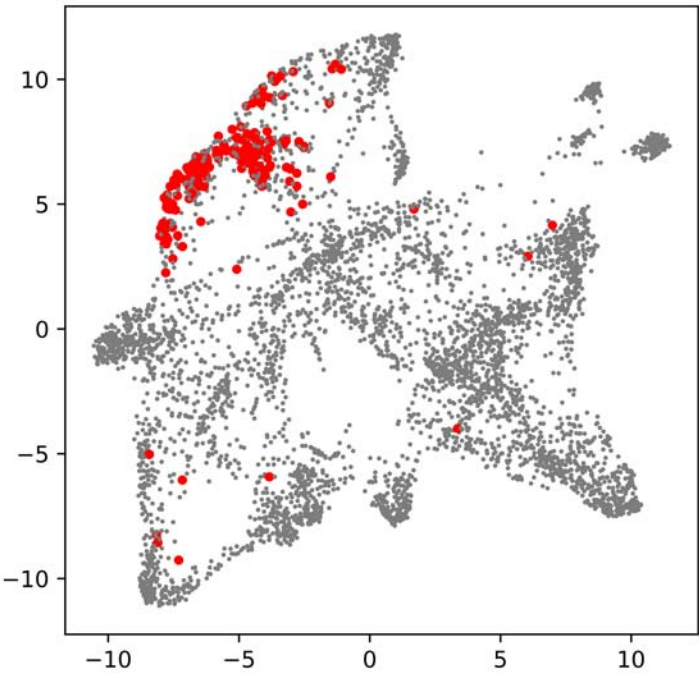
Module 1

- Pattern: Radial
- #Cells: 181
- #Genes: 13
- Genes: cldn5,adgrl4,pecam1,acvrl1,ly6a,fn1,pglyrp1,sox17,kdr,emcn,nostrin,cd93,zfp366

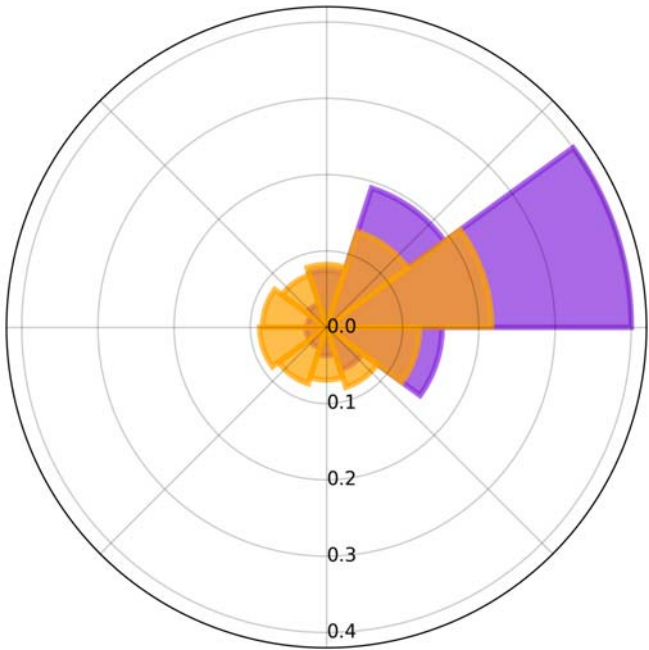


GO Genes

GO Cells

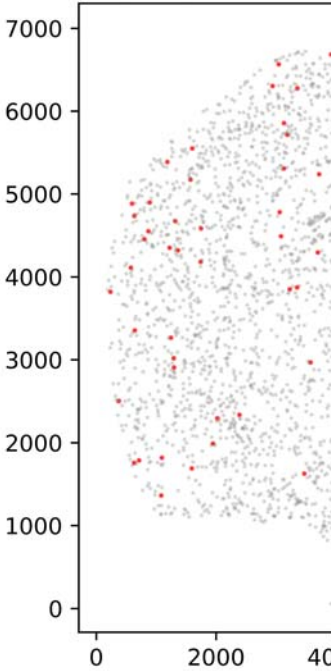


Term	P-Value	Term	P-Value
angiogenesis	1.32e-06	extracellular region	1.03e-13
blood vessel morphogenesis	7.32e-06	extracellular space	1.17e-12
blood vessel development	3.75e-05	extracellular matrix	1.36e-12
endothelium development	4.80e-05	external encapsulating structure	1.42e-12
endothelial cell differentiation	4.80e-05	collagen-containing extracellular matrix	1.26e-10

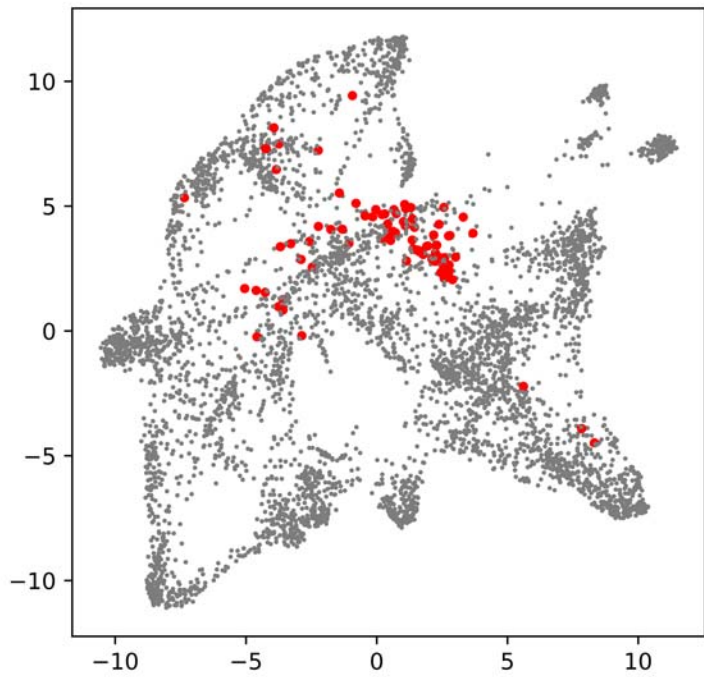


Module 2

- Pattern: Radial
- #Cells: 89
- #Genes: 8
- Genes: cd53,trem2,cd300c2,siglech,cd68,ikzf1,spi1,laptm5





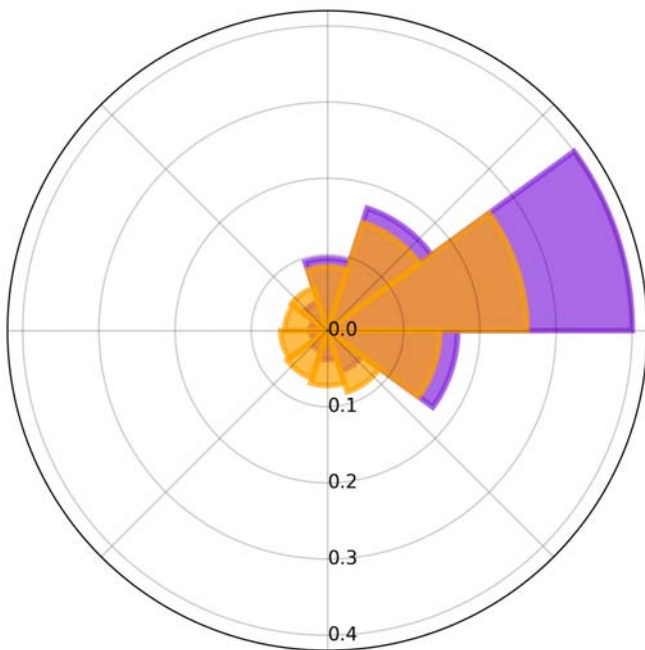


## GO Genes

Term	P-Value
regulation of immune system process	1.52e-05
cellular response to lipopolysaccharide	2.31e-05
cellular response to molecule of bacterial origin	2.31e-05
cellular response to biotic stimulus	2.31e-05
regulation of immune response	5.63e-05

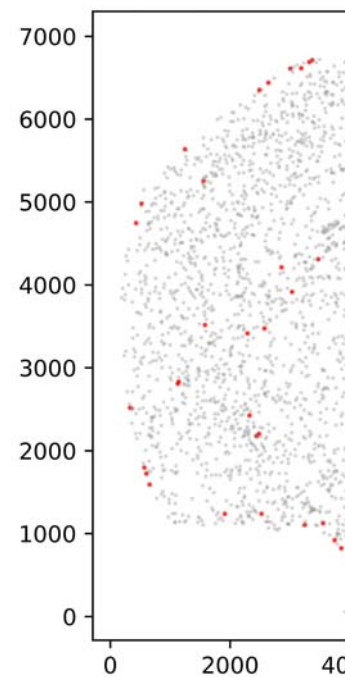
## GO Cells

Term	P-Value
collagen trimer	1.26e-07
collagen-containing extracellular matrix	1.54e-06
extracellular region	3.82e-06
complement activation, classical pathway	4.91e-06
extrinsic component of presynaptic membrane	4.91e-06



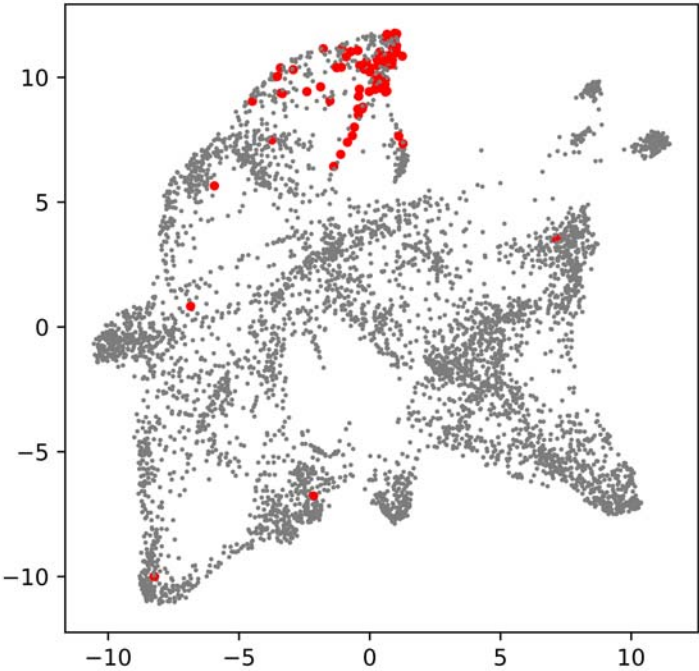
### Module 3

- Pattern: Radial
- #Cells: 79
- #Genes: 9
- Genes:  
aldh1a2,col1a1,fmod,spp1,gjb2,cyp1b1,slc13a4,dcn,igf2

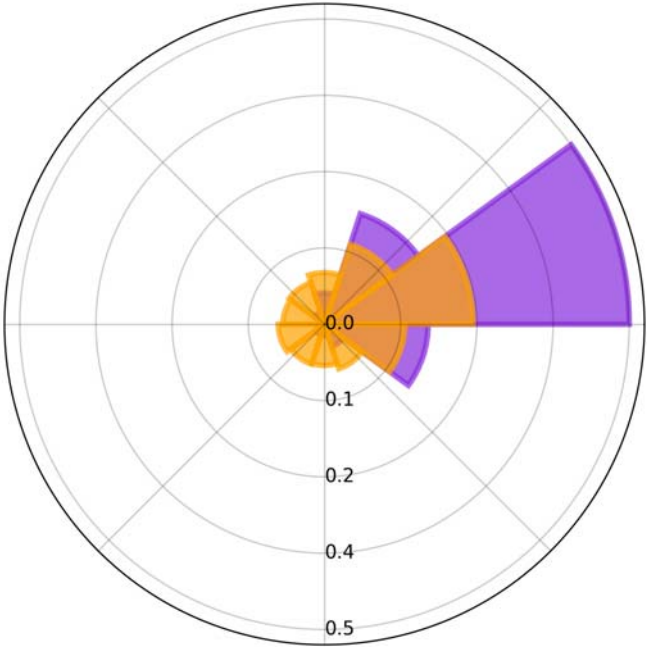


GO Genes

GO Cells

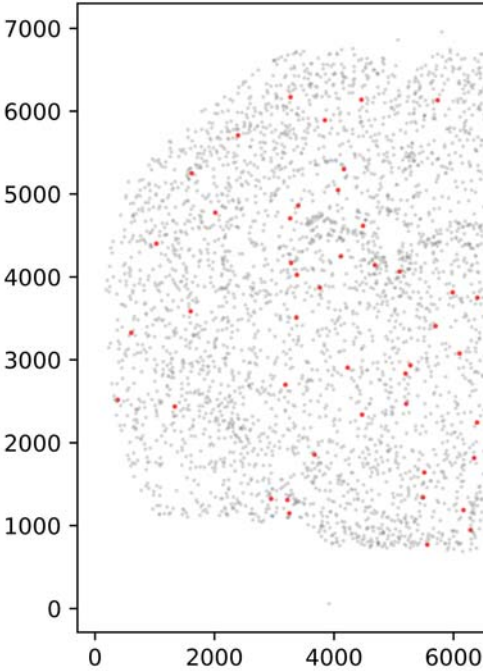


Term	P-Value	Term	P-Value
response to nutrient	2.07e-05	extracellular matrix	4.43e-12
cellular response to lipid	6.09e-05	external encapsulating structure	4.60e-12
response to hormone	7.66e-05	extracellular region	6.49e-12
response to estradiol	9.26e-05	extracellular space	5.11e-11
response to organic cyclic compound	9.92e-05	skeletal system development	1.26e-10



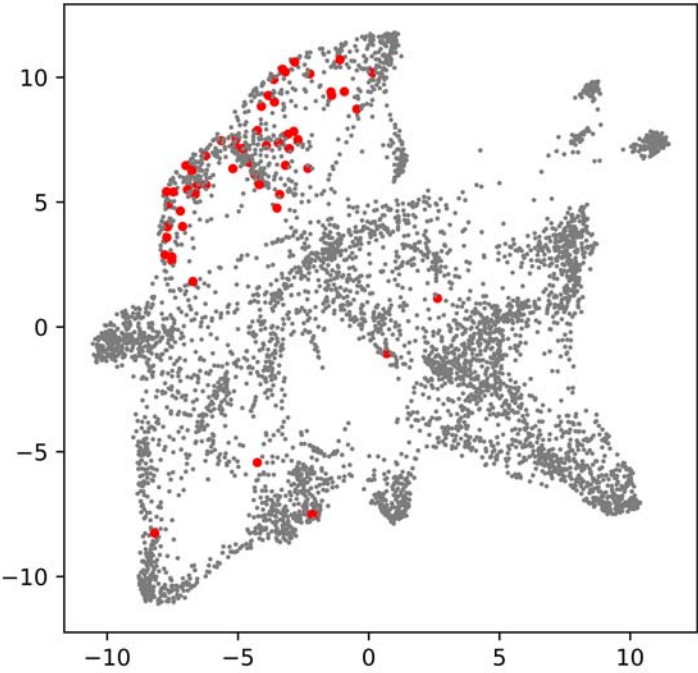
Module 4

- Pattern: Radial
- #Cells: 57
- #Genes: 3
- Genes: ano1,carmn,cspg4

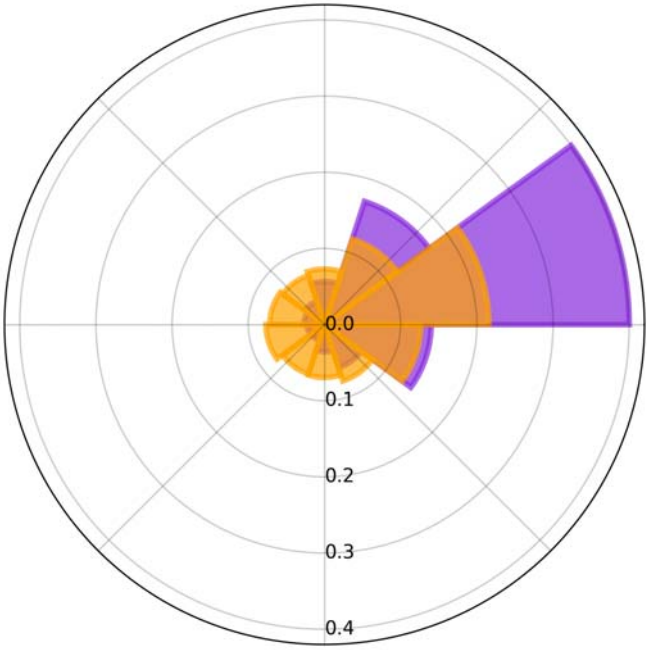


GO Genes

GO Cells

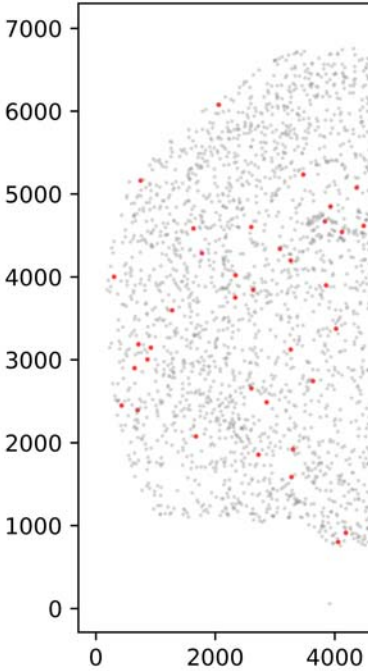


Term	P-Value	Term	P-Value
apical plasma membrane	5.02e-04	extracellular matrix	5.25e-13
apical part of cell	9.37e-04	external encapsulating structure	5.46e-13
gliogenesis	6.36e-03	extracellular region	1.58e-12
detection of stimulus involved in sensory perception of pain	8.16e-03	extracellular space	3.00e-11
iodide transport	8.16e-03	collagen-containing extracellular matrix	5.93e-11

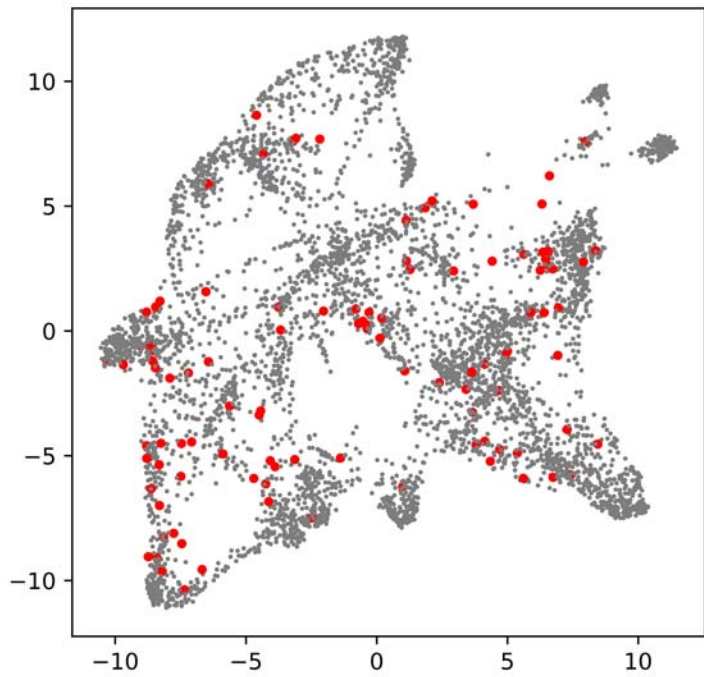


Module 5

- Pattern: Radial
- #Cells: 104
- #Genes: 4
- Genes: gpr17,cspg4,sema3d,pdgfra





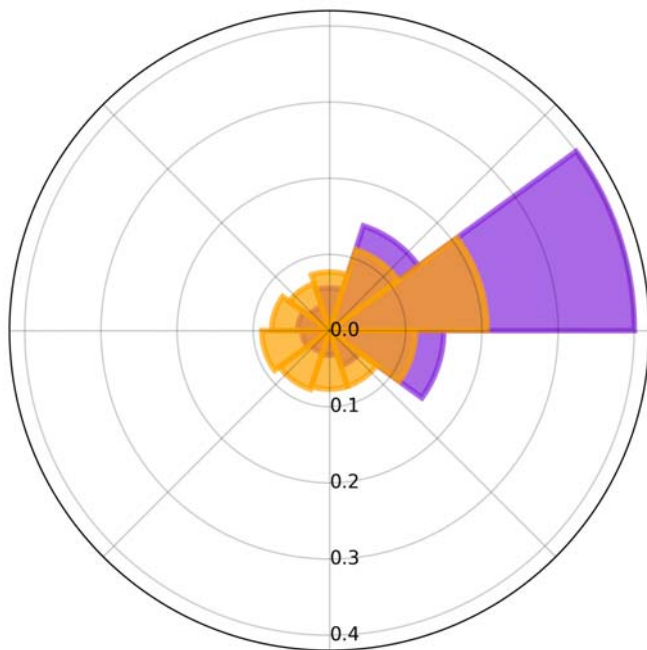


## GO Genes

Term	P-Value
platelet-derived growth factor receptor signaling pathway	1.19e-03
taxis	5.44e-03
chemotaxis	5.44e-03
positive regulation of peptidyl-tyrosine phosphorylation	6.95e-03
regulation of peptidyl-tyrosine phosphorylation	6.95e-03

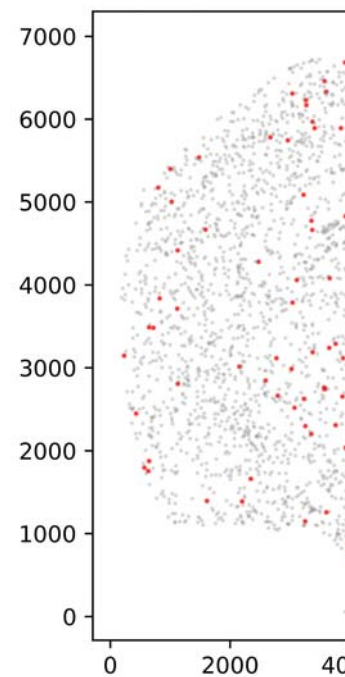
## GO Cells

Term	P-Value
myelination	1.37e-11
ensheathment of neurons	1.64e-11
axon ensheathment	1.64e-11
oligodendrocyte differentiation	7.02e-09
glial cell development	1.14e-07



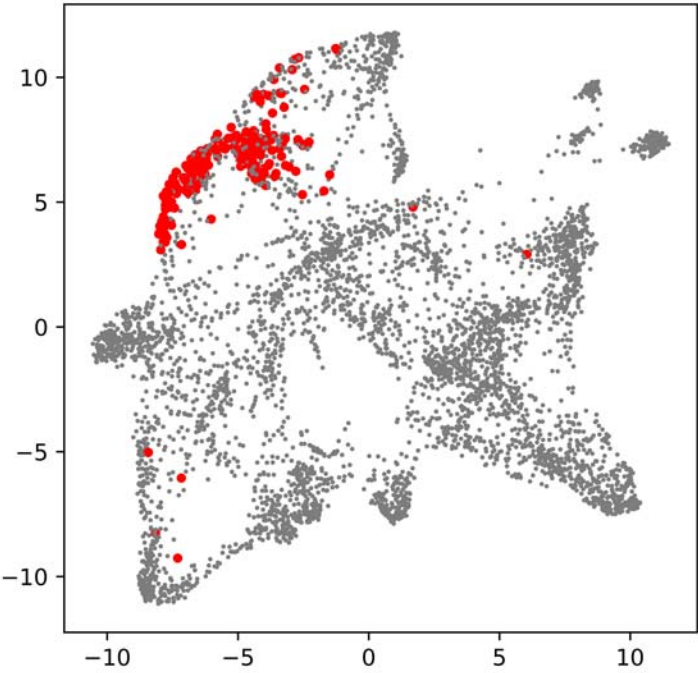
### Module 6

- Pattern: Punctate
- #Cells: 204
- #Genes: 14
- Genes: `cldn5,adgrl4,pecam1,acvr11,ly6a,pglyrp1,fn1,kdr,sox17,emcn,cd93,nostrin,mecom,fgd5`

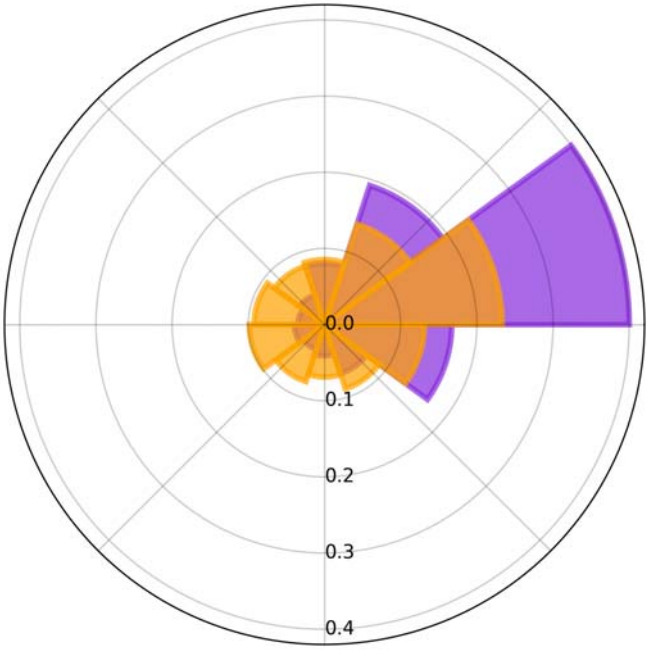


GO Genes

GO Cells

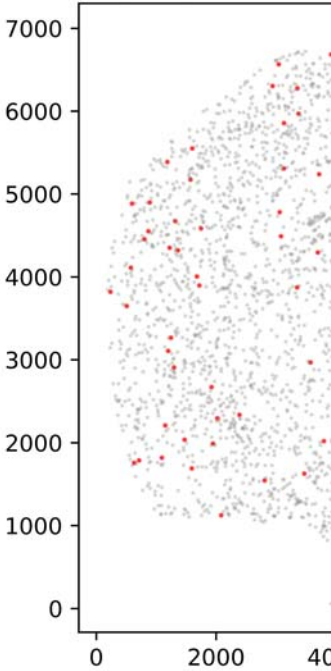


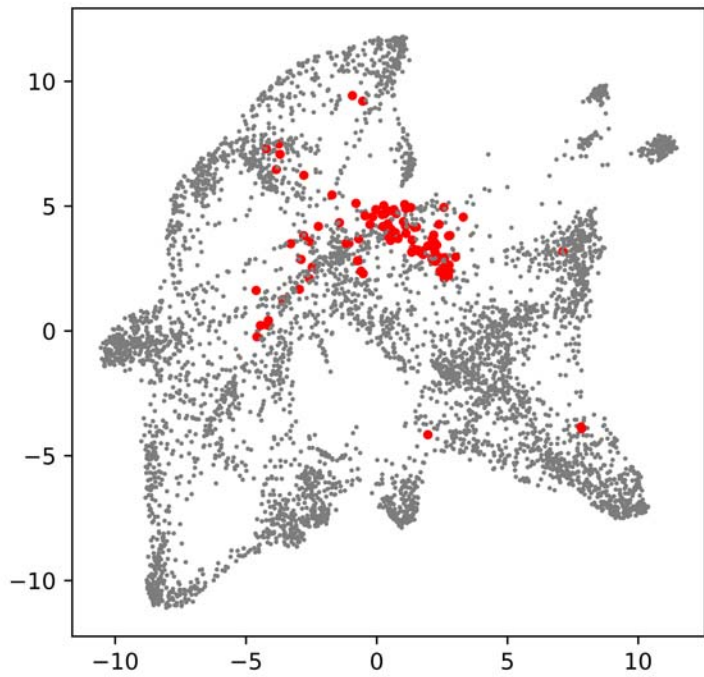
Term	P-Value	Term	P-Value
angiogenesis	5.31e-06	extracellular region	3.27e-14
blood vessel morphogenesis	2.85e-05	extracellular space	4.81e-13
endothelium development	9.58e-05	extracellular matrix	7.27e-13
endothelial cell differentiation	9.58e-05	external encapsulating structure	7.56e-13
tubemorphogenesis	1.02e-04	collagen-containing extracellular matrix	7.66e-11



Module 7

- Pattern: Punctate
- #Cells: 99
- #Genes: 8
- Genes: cd300c2,cd53,trem2,ikzf1,siglech,spi1,cd68,laptm5



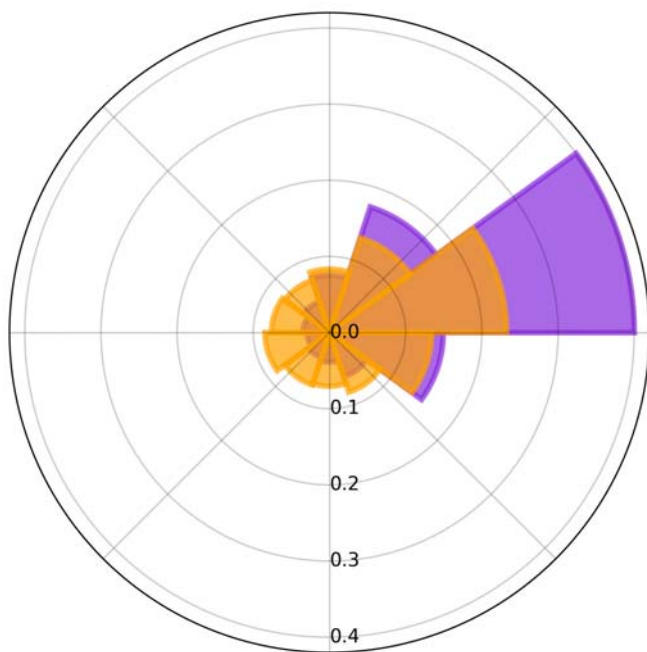


## GO Genes

Term	P-Value
regulation of immune system process	1.52e-05
cellular response to lipopolysaccharide	2.31e-05
cellular response to molecule of bacterial origin	2.31e-05
cellular response to biotic stimulus	2.31e-05
regulation of immune response	5.63e-05

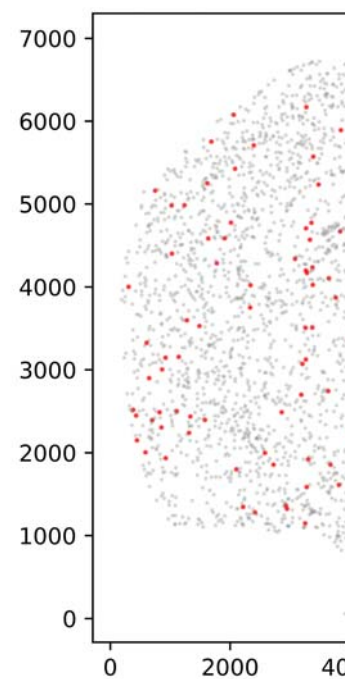
## GO Cells

Term	P-Value
ensheathment of neurons	6.95e-07
axon ensheathment	6.95e-07
regulation of cell development	1.10e-06
regulation of gliogenesis	6.15e-06
myelination	1.03e-05



### Module 8

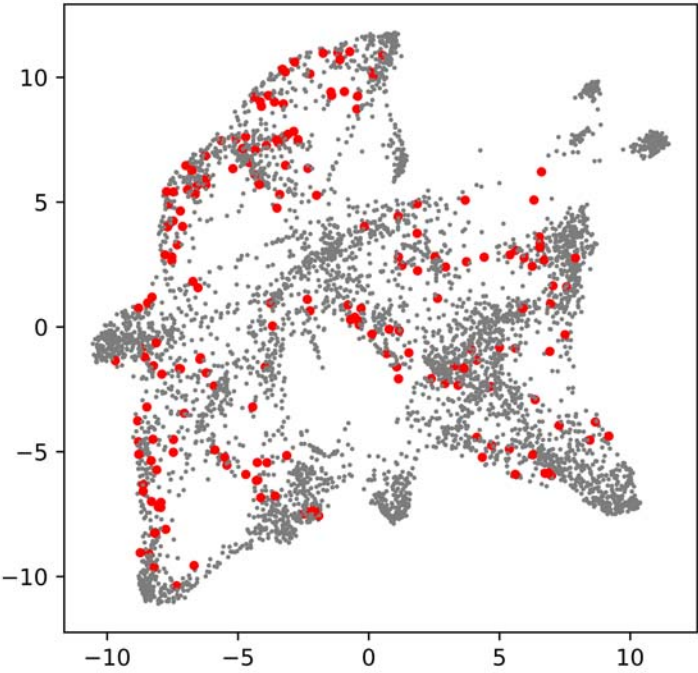
- Pattern: Punctate
- #Cells: 193
- #Genes: 6
- Genes: cspg4,gpr17,ano1,carmn,sema3d,pdgfra



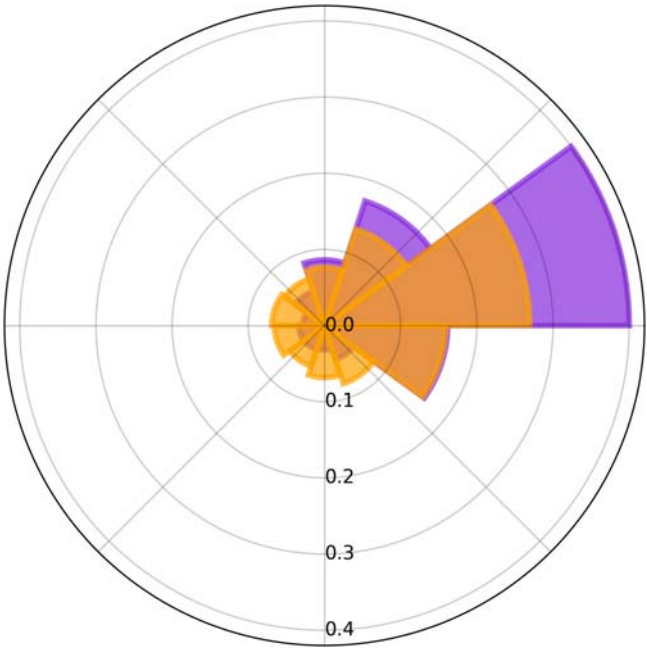


GO Genes

GO Cells

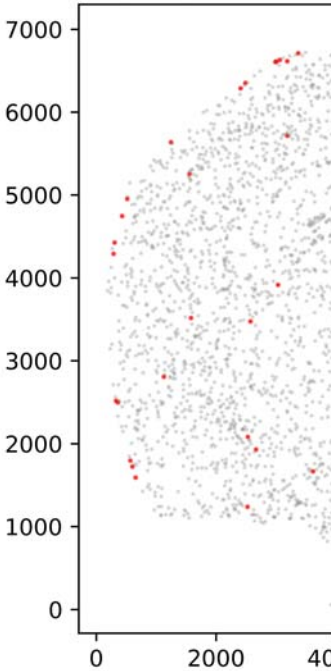


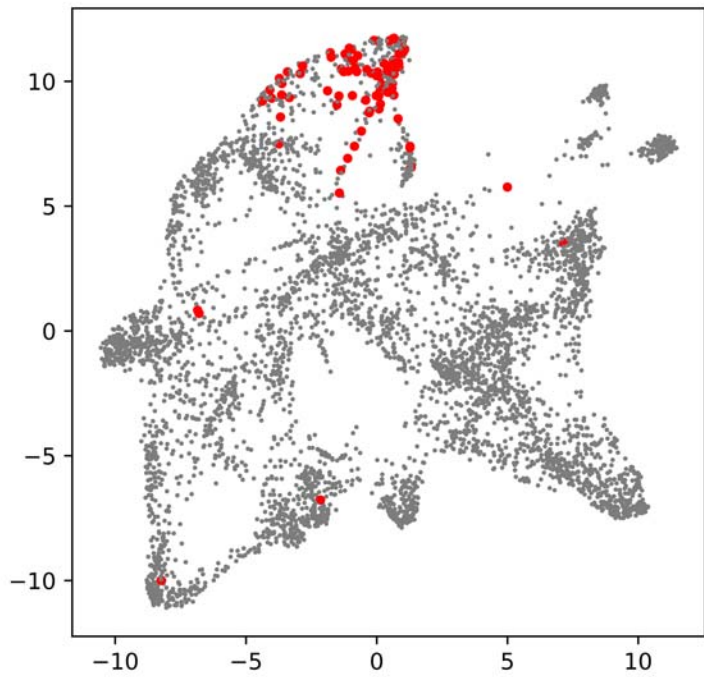
Term	P-Value	Term	P-Value
platelet-derived growth factor receptor signaling pathway	1.97e-03	ensheathment of neurons	1.02e-10
		axon ensheathment	1.02e-10
gliogenesis	4.23e-03	myelination	1.68e-09
regulation of body fluid levels	4.85e-03	dopaminergic synapse	5.86e-08
apical plasma membrane	4.85e-03	axon ensheathment in central nervous system	7.23e-07
signaling receptor binding	5.22e-03		



Module 9

- Pattern: Punctate
- #Cells: 88
- #Genes: 10
- Genes:  
fmod,col1a1,spp1,aldh1a2,dcn,gjb2,cyp1b1,igf2,slc13a4,acta2



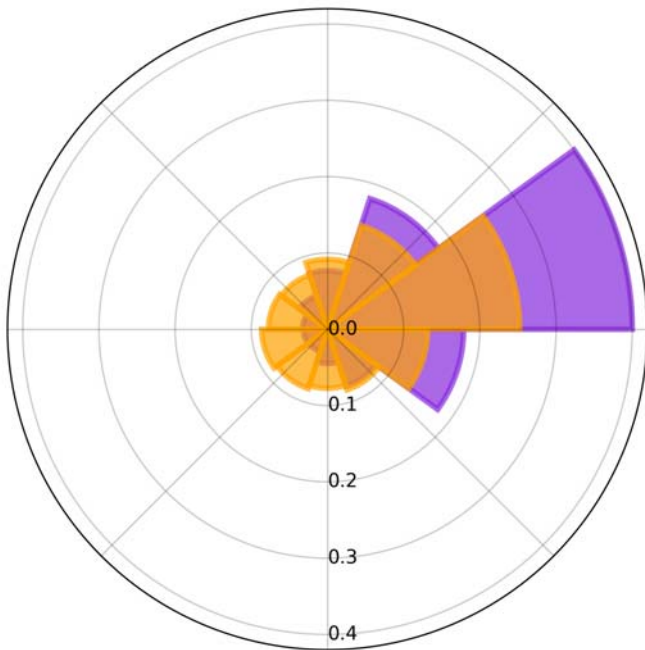


## GO Genes

Term	P-Value
response to nutrient	3.22e-05
cellular response to lipid	1.08e-04
response to estradiol	1.43e-04
response to hormone	1.57e-04
response to organic cyclic compound	2.03e-04

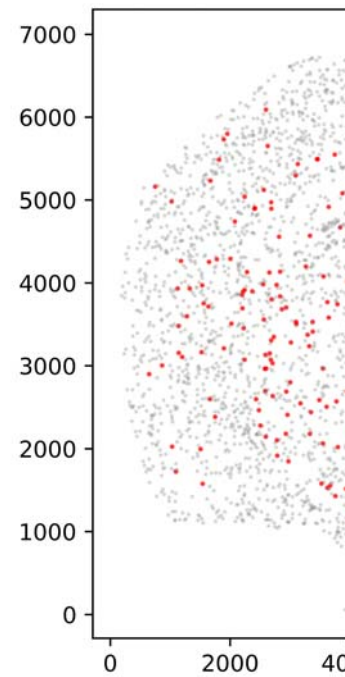
## GO Cells

Term	P-Value
extracellular region	7.98e-12
extracellular space	1.81e-10
extracellular matrix	1.12e-09
external encapsulating structure	1.16e-09
nephron development	1.44e-09



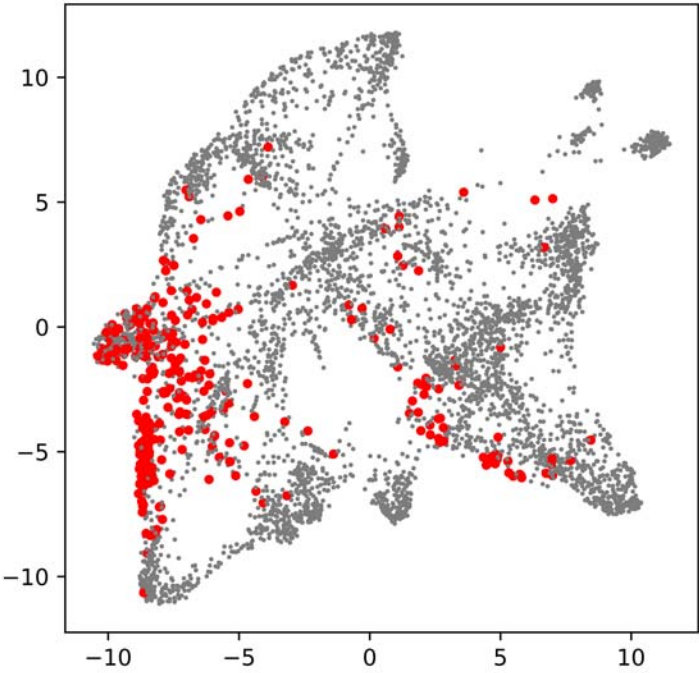
### Module 10

- Pattern: Punctate
- #Cells: 307
- #Genes: 5
- Genes: sox10, opalin, gjc3, zfp536, sema6a

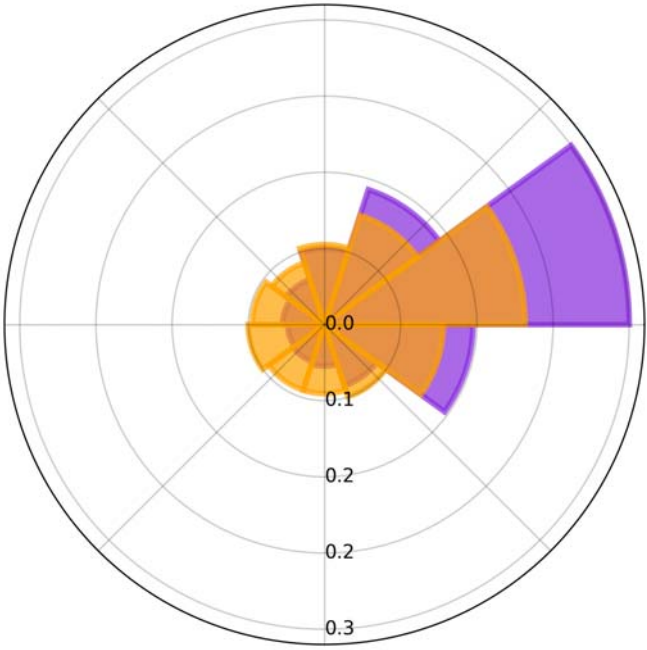


GO Genes

GO Cells

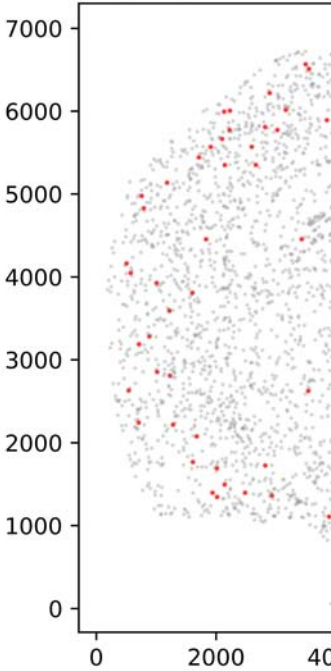


Term	P-Value	Term	P-Value
myelination	4.85e-03	myelination	1.21e-08
axon ensheathment	4.85e-03	ensheathment of neurons	1.39e-08
ensheathment of neurons	4.85e-03	axon ensheathment	1.39e-08
mesenchymal cell migration	8.91e-03	glial cell development	4.38e-06
neural crest cell migration	8.91e-03	axon ensheathment in central nervous system	1.71e-05

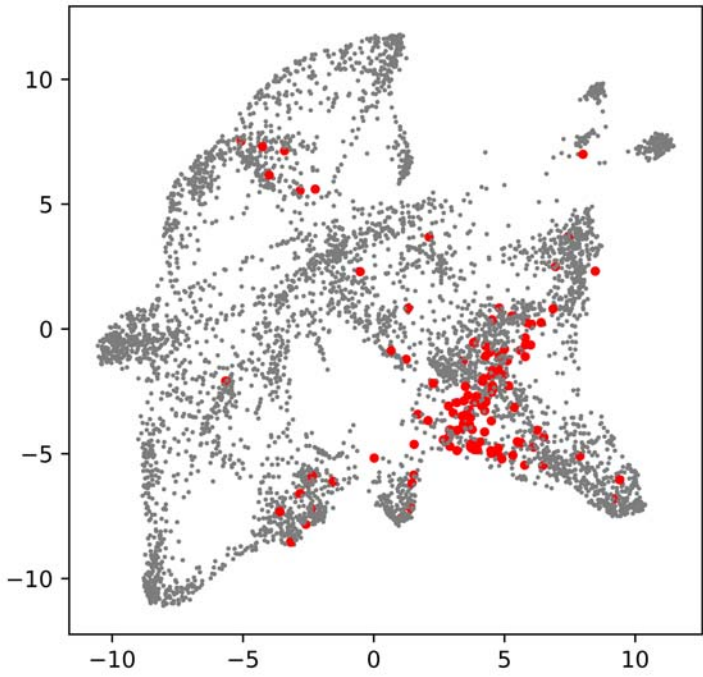


Module 11

- Pattern: Punctate
- #Cells: 126
- #Genes: 18
- Genes:  
cort,sst,pthlh,kcnmb2,rbp4,gad2,crh,rab3b,chodl,gad1,trpc4,eya4,pdyn,col19a1,igf1,cntnap4,pvalb,thsd7a





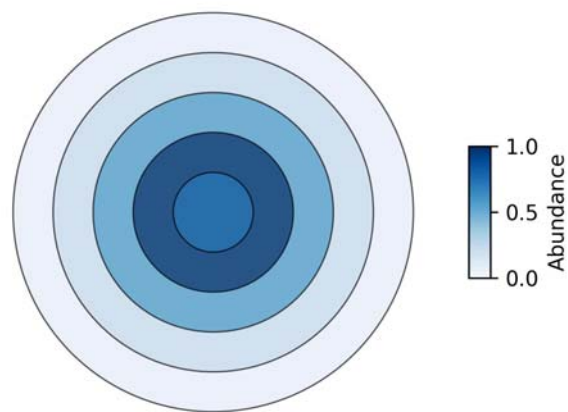


GO Genes

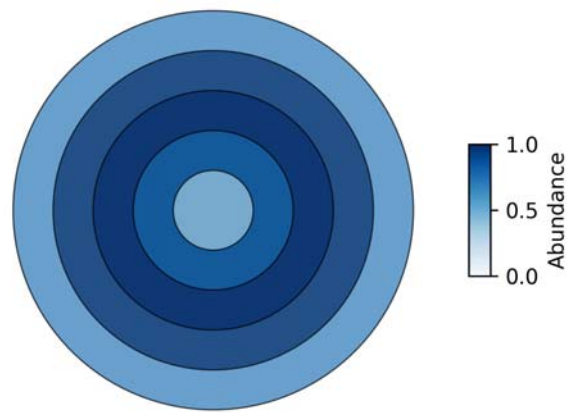
Term	P-Value
hormone activity	4.84e-06
neuronal dense core vesicle	2.85e-04
dense core granule	6.34e-04
secretory granule	1.08e-03
vesicle lumen	1.29e-03

GO Cells

Term	P-Value
cerebral cortex GABAergic interneuron differentiation	9.74e-10
GABAergic neuron differentiation	7.58e-09
cerebral cortex neuron differentiation	3.98e-08
central nervous system neuron differentiation	1.02e-07
forebrain neuron differentiation	2.60e-07



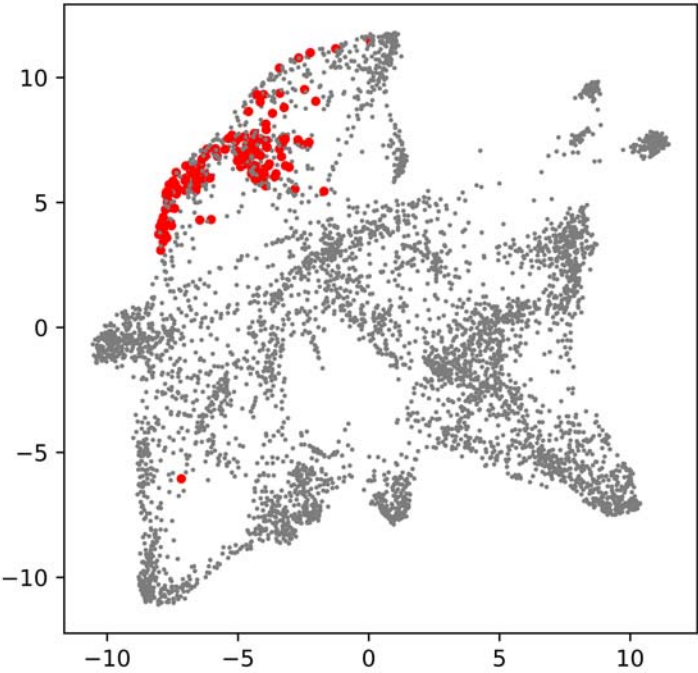
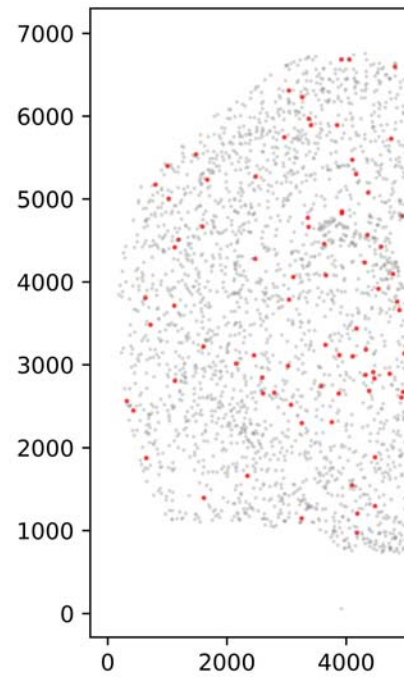
Module



Background

Module 12

- Pattern: Central
- #Cells: 150
- #Genes: 15
- Genes:  
cldn5,pglyrp1,ly6a,pecam1,acvr11,adgrl4,emcn,fn1,sox17,cd93,kdr,fgd5,mecom,zfp366,nost  
rin



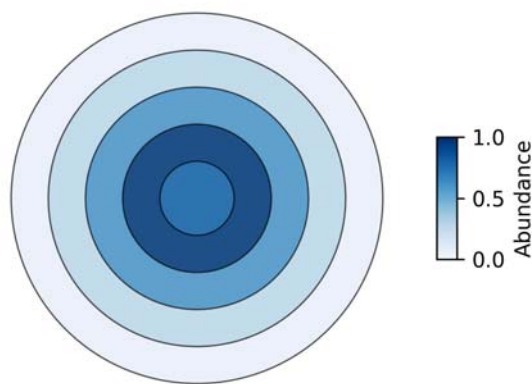
GO Genes

Term	P-Value
angiogenesis	5.31e-06
blood vessel morphogenesis	2.85e-05
endothelium development	9.58e-05
endothelial cell differentiation	9.58e-05
tube morphogenesis	1.02e-04

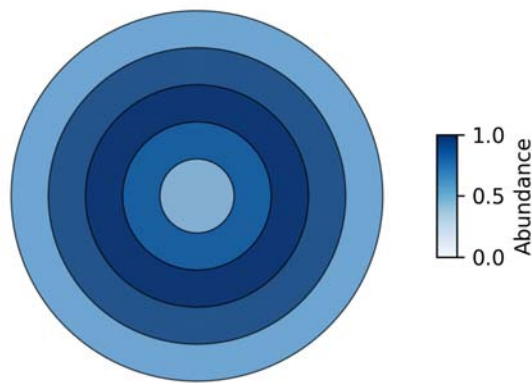
GO Cells

Term	P-Value
extracellular matrix	1.11e-17
external encapsulating structure	1.17e-17
extracellular region	8.35e-17
extracellular space	8.49e-16
collagen-containing extracellular matrix	5.92e-15

Genes:  
trem2,cd300c2,cd53,siglech,ikzf1,cd68,spi1,laptm5,  
#Cells: 93, Pattern: Concentric



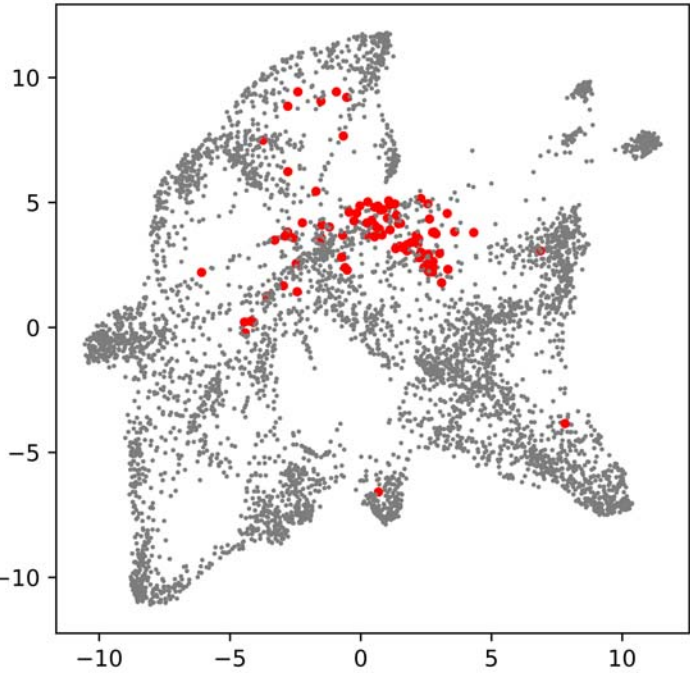
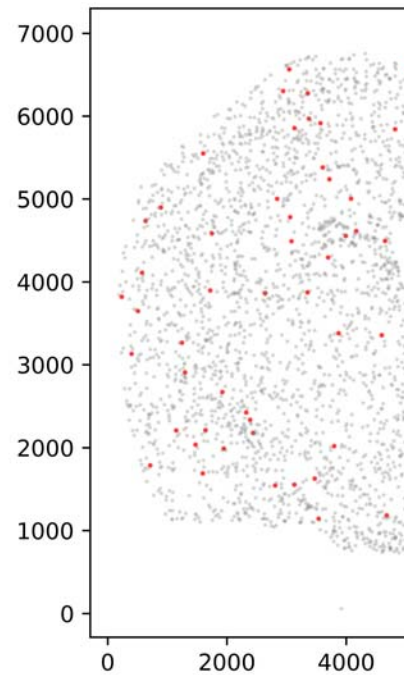
Module



Background

Module 13

- Pattern: Central
- #Cells: 93
- #Genes: 8
- Genes:  
trem2,cd300c2,cd53,siglech,ikzf1,cd68,spi1,laptm5



GO Genes

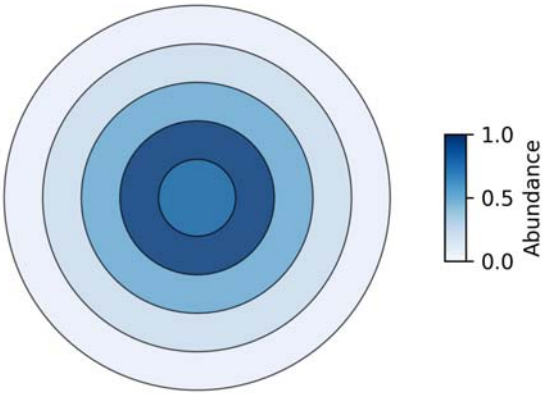
Term	P-Value
regulation of immune system process	1.52e-05
cellular response to lipopolysaccharide	2.31e-05
cellular response to molecule of bacterial origin	2.31e-05
cellular response to biotic stimulus	2.31e-05

GO Cells

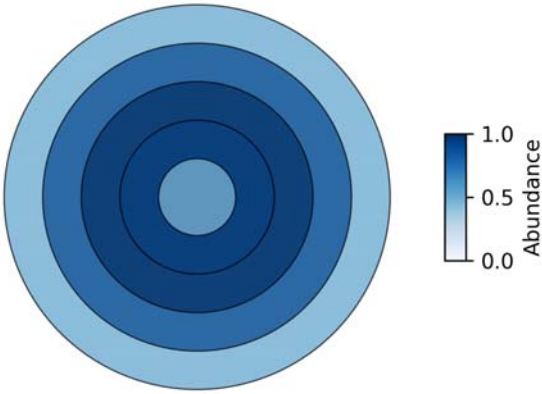
Term	P-Value
positive regulation of activated T cell proliferation	1.96e-04
regulation of activated T cell proliferation	3.52e-04
acylglycerol biosynthetic process	3.52e-04
neutral lipid biosynthetic process	3.52e-04
regulation of lymphocyte proliferation	6.37e-04

Term	P-Value
regulation of immune response	5.63e-05

Genes: cspg4,gpr17,carmn,ano1,sema3d,pdgfra, #Cells: 136, Pattern: Concentric



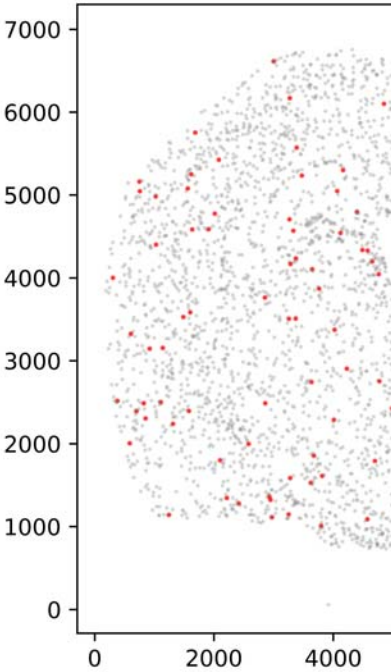
Module



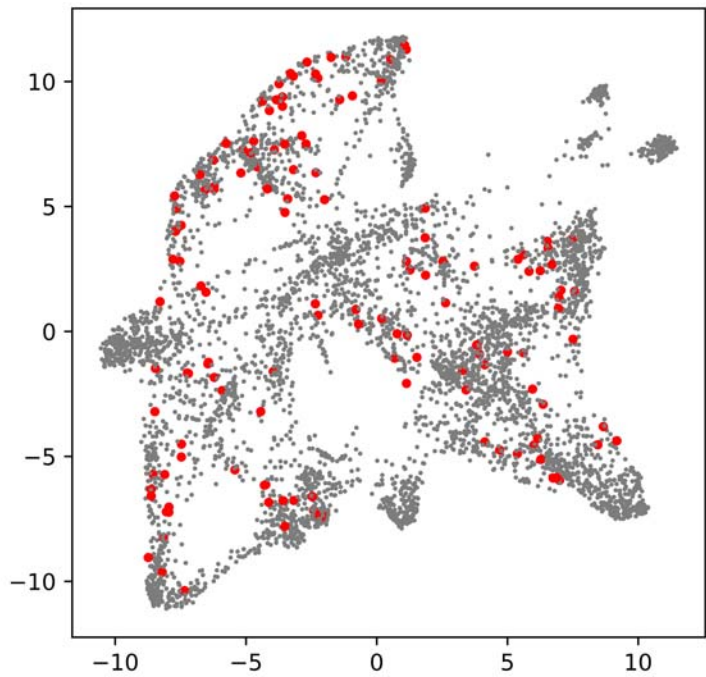
Background

Module 14

- Pattern: Central
- #Cells: 136
- #Genes: 6
- Genes: cspg4,gpr17,carmn,ano1,sema3d,pdgfra







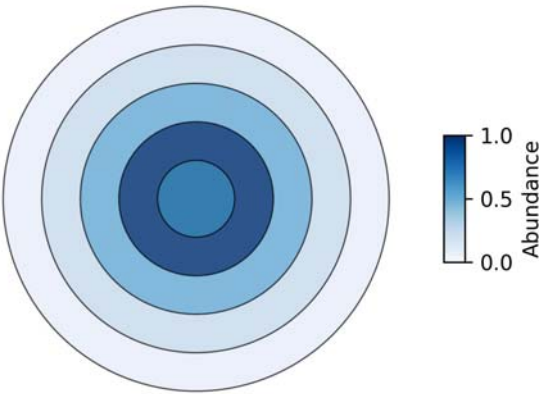
## GO Genes

Term	P-Value
platelet-derived growth factor receptor signaling pathway	1.97e-03
gliogenesis	4.23e-03
regulation of body fluid levels	4.85e-03
apical plasma membrane	4.85e-03
signaling receptor binding	5.22e-03

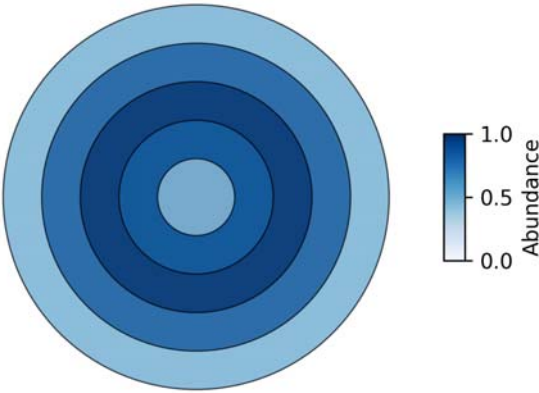
## GO Cells

Term	P-Value
myelination	1.13e-07
ensheathment of neurons	1.27e-07
axon ensheathment	1.27e-07
cell periphery	2.37e-06
regulation of oligodendrocyte differentiation	2.41e-06

Genes: opalin,sox10,gjc3,zfp536,sema6a,dpy19l1,prox1,  
#Cells: 193, Pattern: Concentric



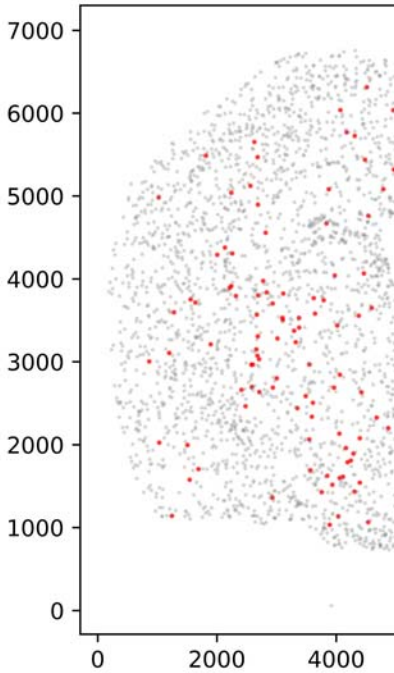
Module

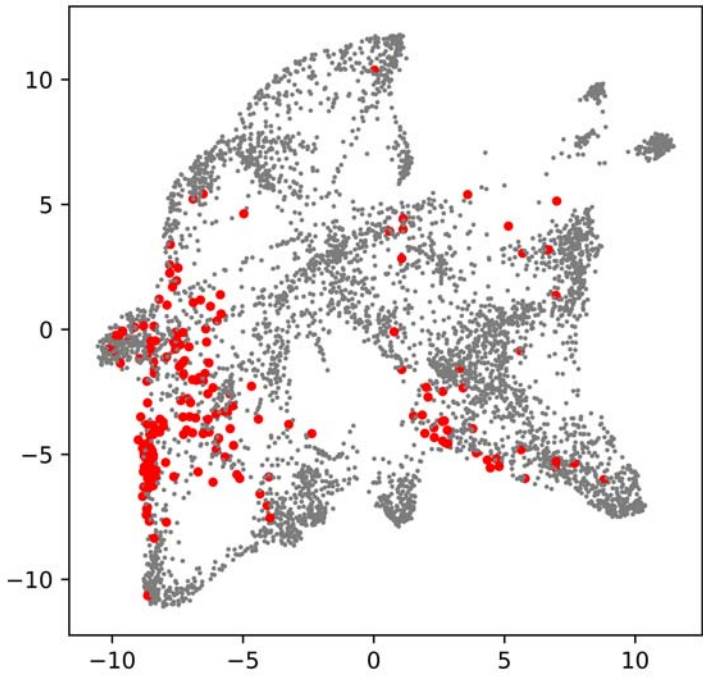


Background

### Module 15

- Pattern: Central
- #Cells: 193
- #Genes: 7
- Genes: opalin,sox10,gjc3,zfp536,sema6a,dpy19l1,prox1





GO Genes

Term	P-Value
ameboidal-type cell migration	1.59e-03
neuroblast proliferation	4.10e-03
transcription by RNA polymerase II	6.74e-03
regulation of neuroblast proliferation	6.74e-03
positive regulation of neural precursor cell proliferation	6.74e-03

GO Cells

Term	P-Value
ensheathment of neurons	6.42e-11
axon ensheathment	6.42e-11
myelination	1.11e-09
glial cell development	4.88e-07
central nervous system myelination	5.89e-07