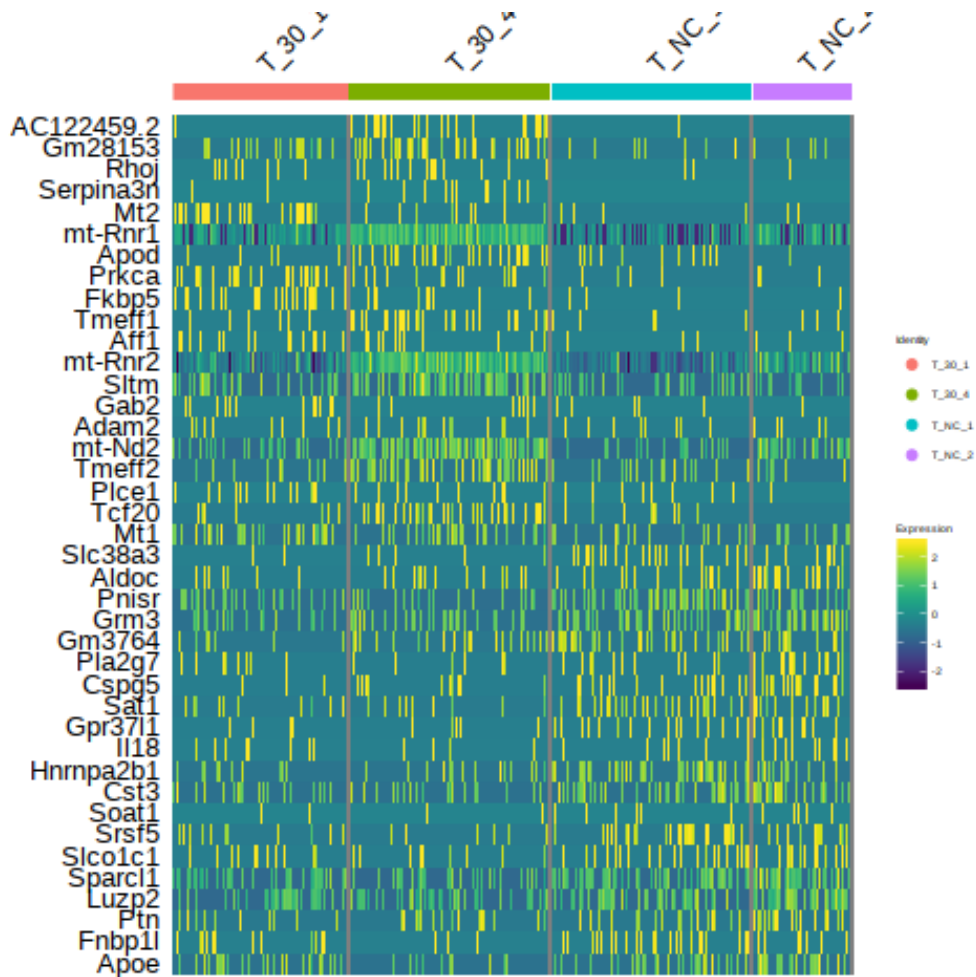
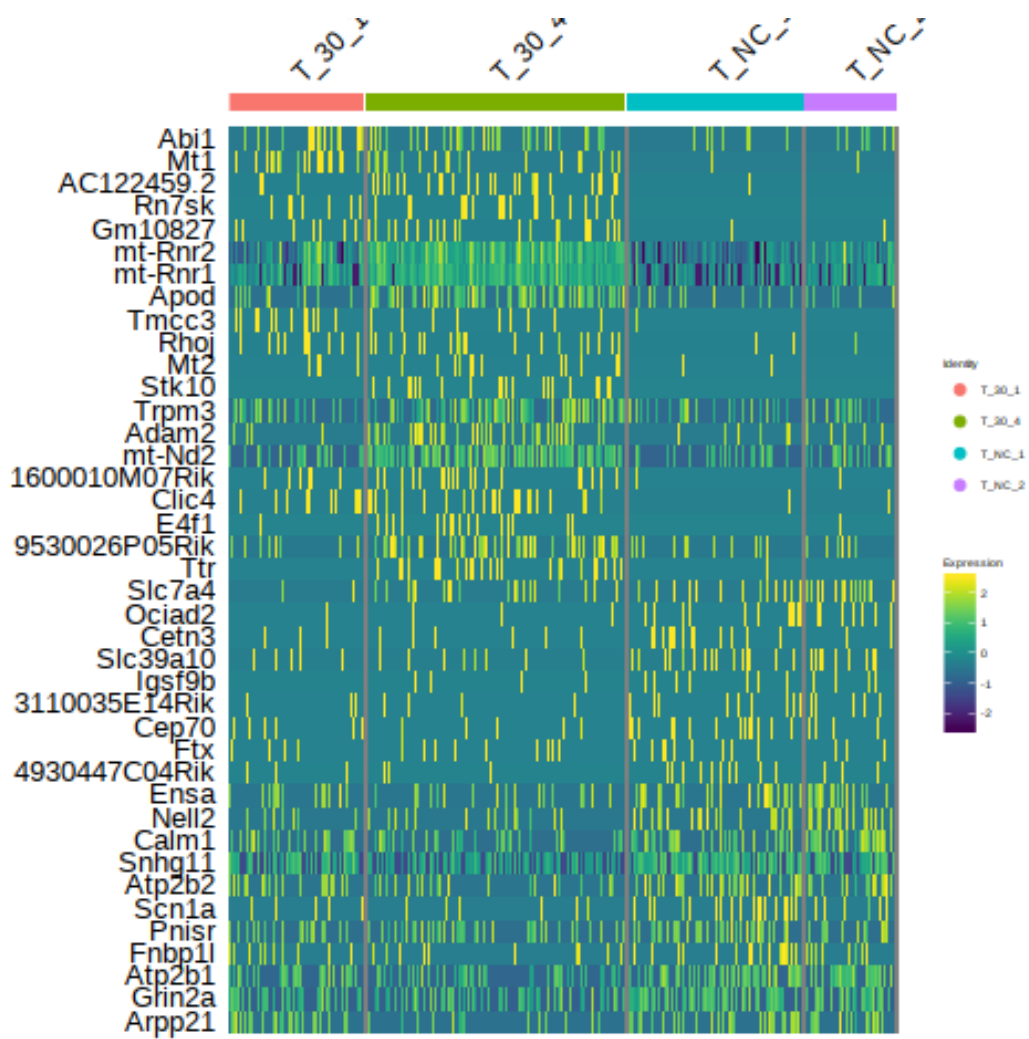
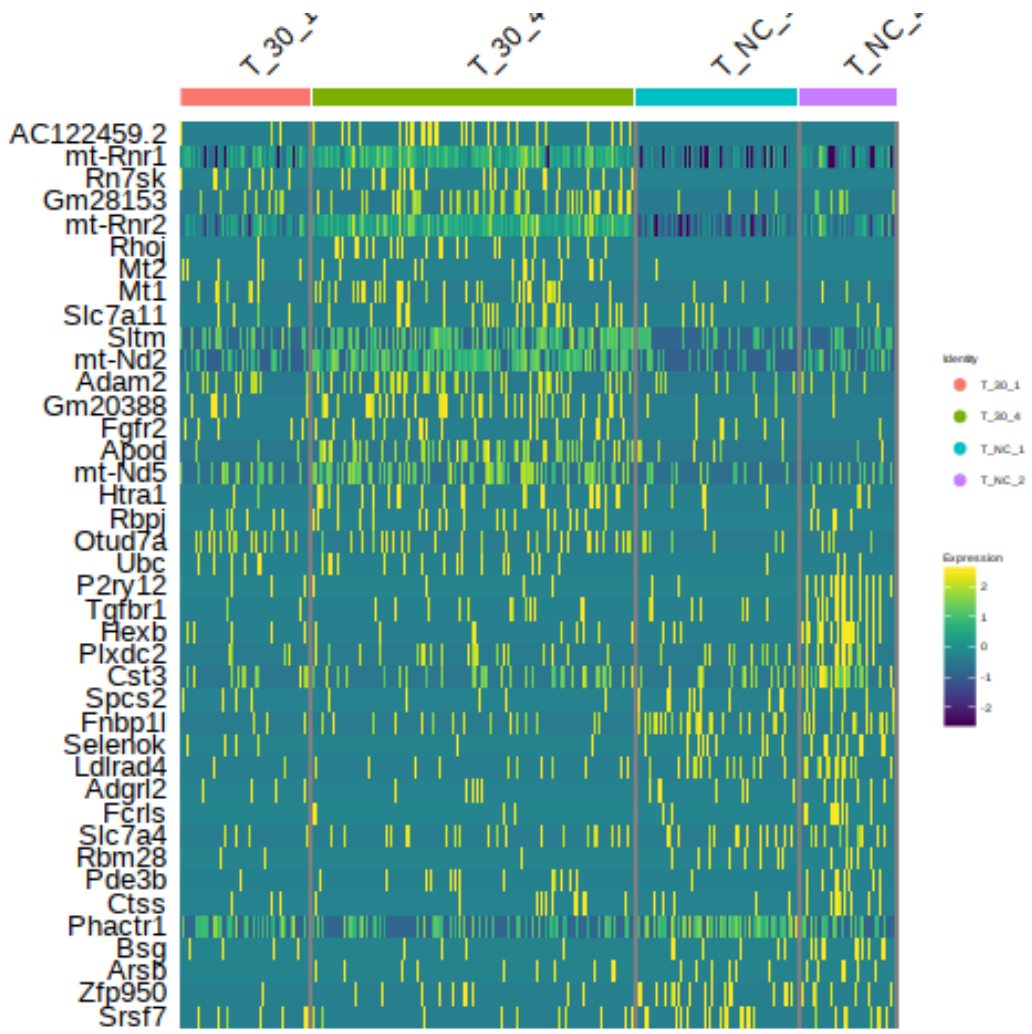


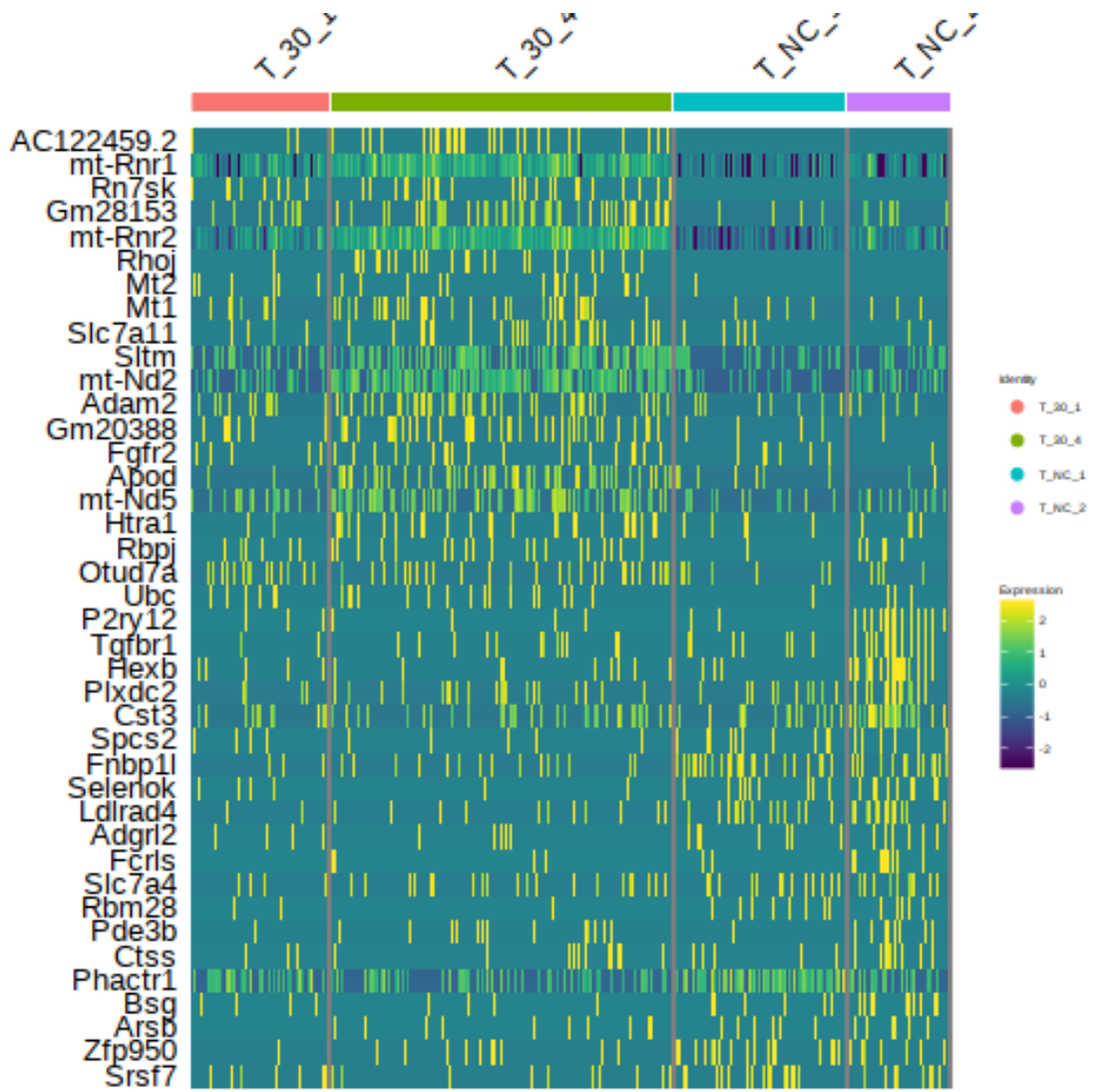
Supplementary material

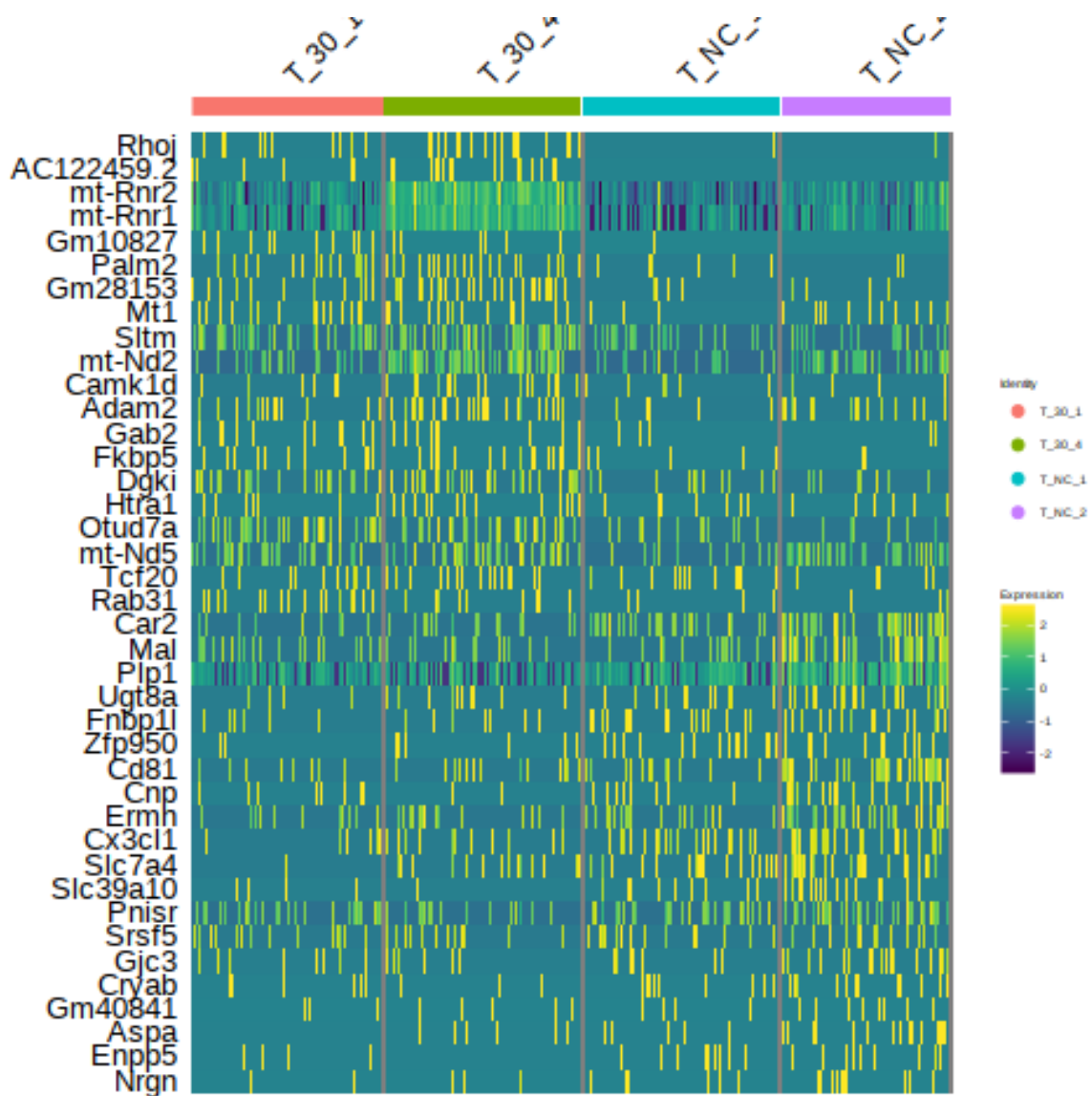
Single cell sequencing reveals heterogeneity of differential gene expression and altered interactome in post-ischemic mouse brain cells

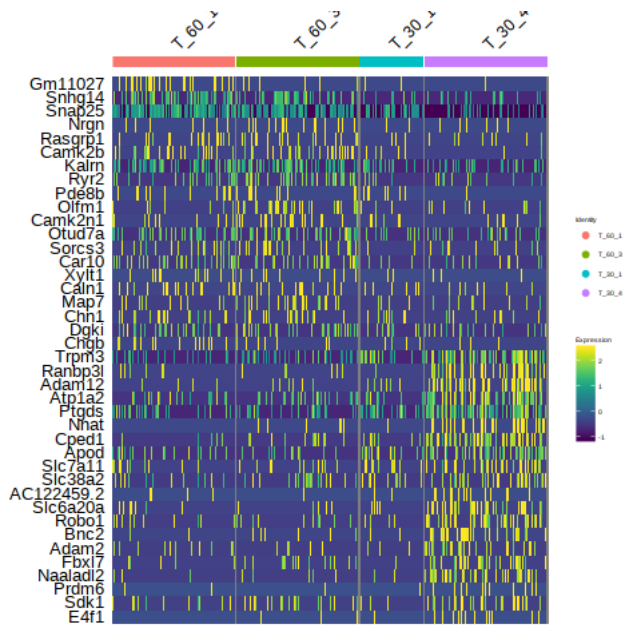
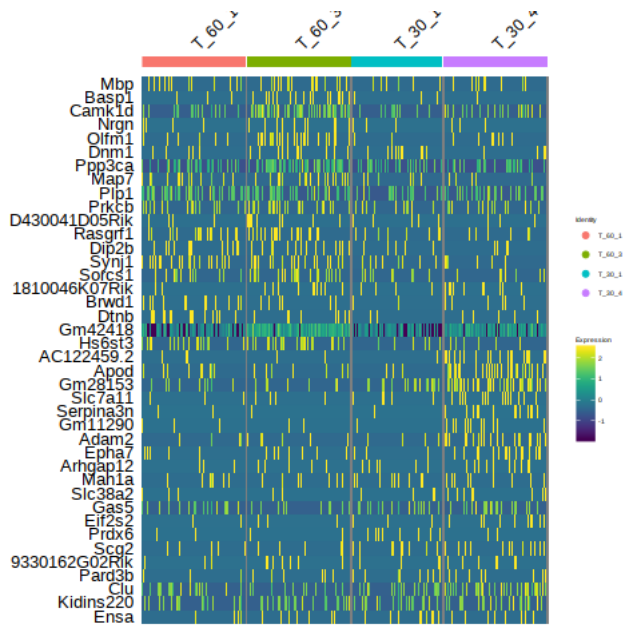


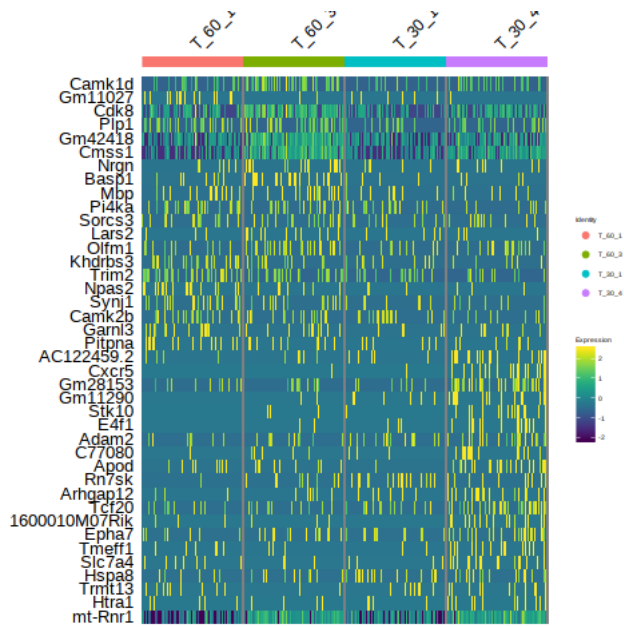
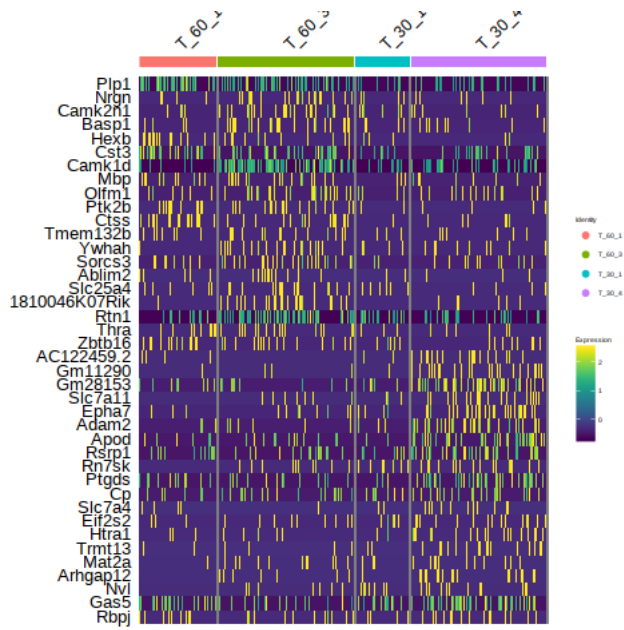


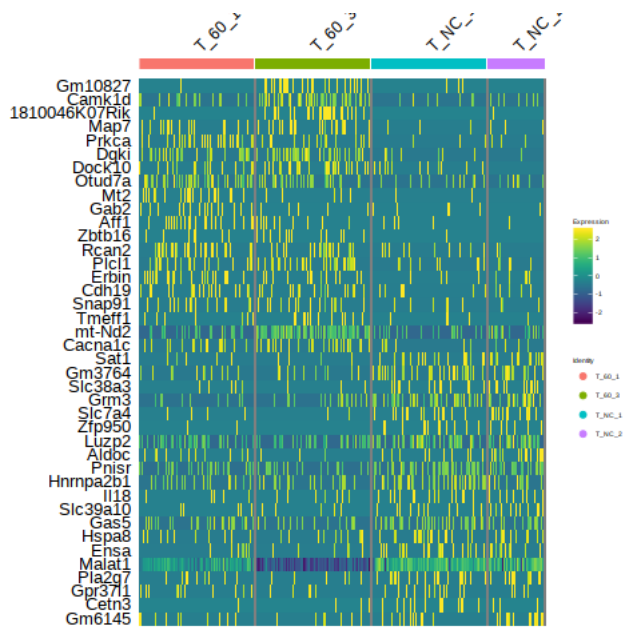
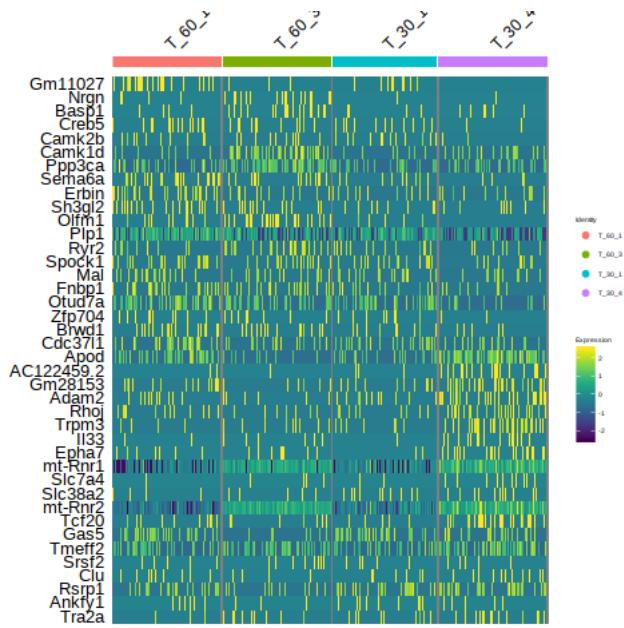


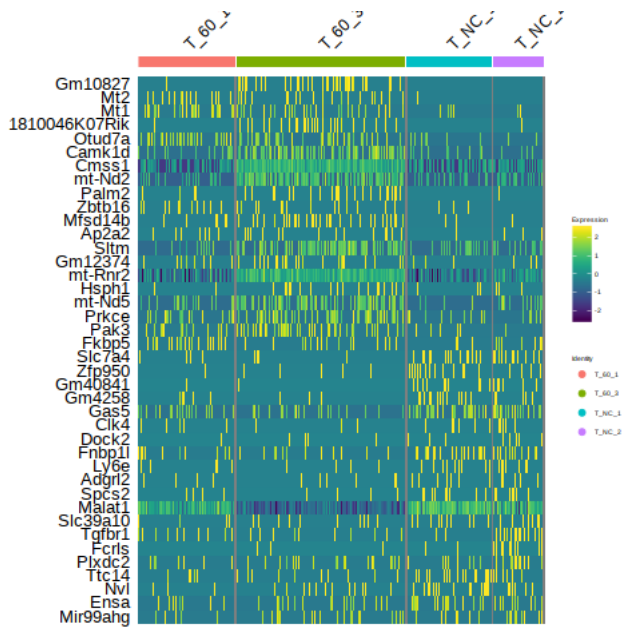
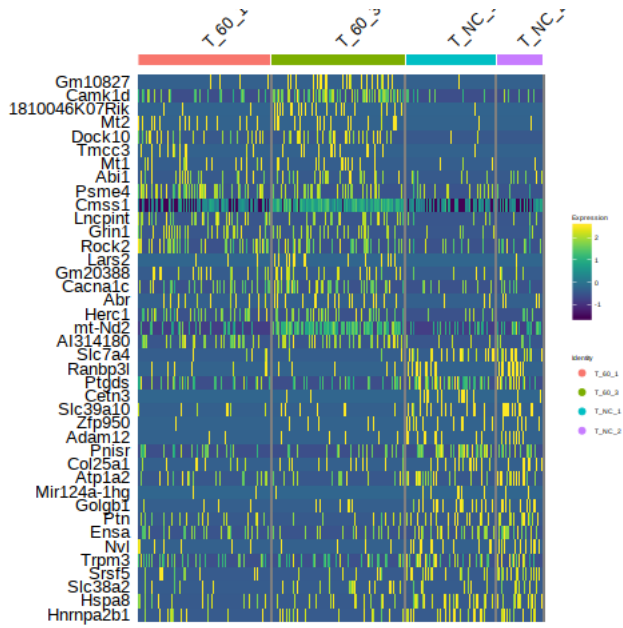


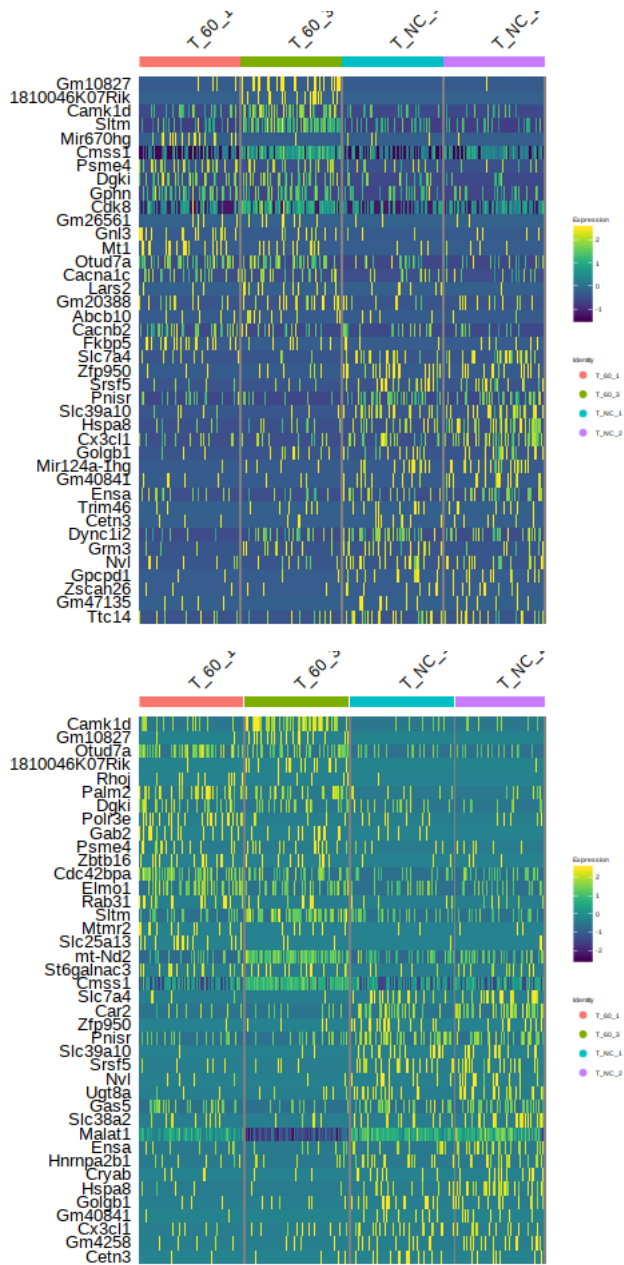












Supplementary Figure S1. Differential gene expression – cell groups

Supplementary Table SI. Network analysis – data

#node 1	node 2	node1_string_id	node2_string_id	neighborhood_on_chromosome	gene_fusion	phylogenetic_cooccurrence	homology	coexpression	experimentally_determined_interaction	database_annotated	automated_textmining	combined_score
Atp2b2	Syt1	10090.ENSMUSP00000098605	10090.ENSMUSP00000100912	0	0	0	0	0.289	0	0	0.222	0.423
Calml1	Camk1d	10090.ENSMUSP00000158788	10090.ENSMUSP00000037028	0	0	0	0	0.066	0.261	0	0.208	0.405
Calml1	Sor1l1	10090.ENSMUSP00000158788	10090.ENSMUSP00000058613	0	0	0	0	0.060	0	0	0.403	0.415
Cx3cl1	Cxcr5	10090.ENSMUSP00000034230	10090.ENSMUSP00000149508	0	0	0	0	0	0.041	0.650	0.590	0.850
Dyncl1i2	Golgb1	10090.ENSMUSP00000107768	10090.ENSMUSP00000045239	0	0	0	0	0.066	0	0.500	0.066	0.526
Fgfr2	Plcb1	10090.ENSMUSP00000112430	10090.ENSMUSP00000105743	0	0	0	0	0	0	0.650	0	0.650
Fus	Srsf5	10090.ENSMUSP00000101858	10090.ENSMUSP00000105980	0	0	0	0	0.318	0.066	0.400	0.218	0.661
Gpnh	Griin2b	10090.ENSMUSP00000106018	10090.ENSMUSP00000062284	0	0	0	0	0.042	0	0	0.556	0.557
Gpnh	Syt1	10090.ENSMUSP00000106018	10090.ENSMUSP00000100912	0	0	0	0	0.079	0	0	0.432	0.454
Gpnh	Griin2a	10090.ENSMUSP00000106018	10090.ENSMUSP00000142900	0	0	0	0	0	0	0	0.502	0.502
Griin2a	Grm3	10090.ENSMUSP00000142900	10090.ENSMUSP00000004076	0	0	0	0	0.158	0	0	0.770	0.798
Griin2a	Griin2b	10090.ENSMUSP00000142900	10090.ENSMUSP00000062284	0	0	0	0.944	0.261	0.888	0.900	0.983	0.999
Griin2a	Syt1	10090.ENSMUSP00000142900	10090.ENSMUSP00000100912	0	0	0	0	0.176	0	0	0.387	0.473
Griin2b	Grm3	10090.ENSMUSP00000062284	10090.ENSMUSP00000004076	0	0	0	0	0.193	0	0	0.652	0.707
Griin2b	Syt1	10090.ENSMUSP00000062284	10090.ENSMUSP00000100912	0	0	0	0	0.188	0	0	0.399	0.491
Griin2b	Plcb1	10090.ENSMUSP00000062284	10090.ENSMUSP00000105743	0	0	0	0	0.135	0	0	0.492	0.541

Me f2c	Pni sr	10090.ENSM USP0000014 3401	10090.ENSM USP0000002 9911	0	0	0	0	0.046	0.086	0	0.438	0.467
Me f2c	Sor ll	10090.ENSM USP0000014 3401	10090.ENSM USP0000005 8613	0	0	0	0	0.071	0	0	0.522	0.537
Pni sr	Sl m	10090.ENSM USP0000002 9911	10090.ENSM USP0000004 9112	0	0	0	0	0.502	0.051	0	0.057	0.515
Pni sr	Srs f5	10090.ENSM USP0000002 9911	10090.ENSM USP0000010 5980	0	0	0	0	0.341	0.102	0	0.273	0.533
mt- Co 1	mt - Nd 2	10090.ENSM USP0000008 0993	10090.ENSM USP0000008 0992	0	0	0	0	0.683	0.758	0	0.893	0.991
mt- Co 1	mt - Nd 5	10090.ENSM USP0000008 0993	10090.ENSM USP0000008 1001	0	0	0	0	0.927	0.758	0	0.899	0.998
mt- Nd 2	mt - Nd 5	10090.ENSM USP0000008 0992	10090.ENSM USP0000008 1001	0	0	0.245	0.58 8	0.985	0.990	0.900	0.981	0.999

#n ode 1	no de 2	node1_string _id	node2_string _id	neighborhoo d_on_chromo some	gene _fusi on	phylogenet ic_cooccurr ence	ho mol ogy	coex press ion	experimentally_d etermined_intera ction	database _annota ted	automate d_textmi ning	combi ned_sc ore
Am ph	Gr in1	10090.ENSM USP0000014 2766	10090.ENSM USP0000002 8335	0	0	0	0	0.122	0	0	0.692	0.718
Cac nal c	Gr in1	10090.ENSM USP0000010 8413	10090.ENSM USP0000002 8335	0	0	0	0	0.094	0	0	0.485	0.513
Cac nal c	Sn ap 25	10090.ENSM USP0000010 8413	10090.ENSM USP0000002 8727	0	0	0	0	0.125	0	0	0.565	0.603
Cac nal c	Gr in2 a	10090.ENSM USP0000010 8413	10090.ENSM USP0000014 2900	0	0	0	0	0.085	0	0	0.490	0.513
Cac nal c	Ca cn b2	10090.ENSM USP0000010 8413	10090.ENSM USP0000011 0371	0	0	0	0	0.215	0.987	0.720	0.973	0.999
Do ck1 0	He rc1	10090.ENSM USP0000007 7099	10090.ENSM USP0000004 4801	0	0	0	0	0.041	0.491	0	0	0.491
Dy ncl i2	Go lgb l	10090.ENSM USP0000010 7768	10090.ENSM USP0000004 5239	0	0	0	0	0.066	0	0.500	0.066	0.526
Gp hn	Gr in1	10090.ENSM USP0000010 6018	10090.ENSM USP0000002 8335	0	0	0	0	0	0	0	0.640	0.640

Gp	Gr in2 a	10090.ENSM USP0000010 6018	10090.ENSM USP0000014 2900	0	0	0	0	0	0	0	0.502	0.502
Gri	mt - Nd 2	10090.ENSM USP0000002 8335	10090.ENSM USP0000008 0992	0	0	0	0	0	0.093	0	0.398	0.430
Gri	Sn ap 25	10090.ENSM USP0000002 8335	10090.ENSM USP0000002 8727	0	0	0	0	0.277	0	0	0.490	0.615
Gri	Gr in2 a	10090.ENSM USP0000002 8335	10090.ENSM USP0000014 2900	0	0	0	0.68 5	0.189	0.995	0.900	0.988	0.999
Gri	Sn ap 25	10090.ENSM USP0000014 2900	10090.ENSM USP0000002 8727	0	0	0	0	0.175	0	0	0.455	0.531
Hs	Sn ap 25	10090.ENSM USP0000001 5800	10090.ENSM USP0000002 8727	0	0	0	0	0.061	0.292	0.500	0.746	0.904
Pni	Sl m	10090.ENSM USP0000002 9911	10090.ENSM USP0000004 9112	0	0	0	0	0.502	0.051	0	0.057	0.515
Pni	Srs f5	10090.ENSM USP0000002 9911	10090.ENSM USP0000010 5980	0	0	0	0	0.341	0.102	0	0.273	0.533
Pni	Tt c1 4	10090.ENSM USP0000002 9911	10090.ENSM USP0000010 3845	0	0	0	0	0.710	0.084	0	0.041	0.723

#n od el	no de 2	node1_string _id	node2_string _id	neighborhood _on_chromos ome	gene _fusi on	phylogenet ic_cooccurr ence	ho mol ogy	coex pressi on	experimentally_d etermined_intera ction	database _annota ted	automate d_textmi ning	combi ned_sc ore
Ap	Pl pl	10090.ENSM USP0000011 9827	10090.ENSM USP0000003 3800	0	0	0	0	0.284	0	0	0.240	0.433
Hs	Pi 4k a	10090.ENSM USP0000001 5800	10090.ENSM USP0000015 6049	0	0	0	0	0.068	0.096	0	0.403	0.453
Hs	Sy nj 1	10090.ENSM USP0000001 5800	10090.ENSM USP0000011 3308	0	0	0	0	0	0	0	0.633	0.633
M	Pl pl	10090.ENSM USP0000004 6185	10090.ENSM USP0000003 3800	0	0	0	0	0.585	0.289	0	0.918	0.973
Pi	Sy nj 1	10090.ENSM USP0000015 6049	10090.ENSM USP0000011 3308	0	0	0	0	0.124	0	0.650	0.376	0.792
Pi	Pit pn a	10090.ENSM USP0000015 6049	10090.ENSM USP0000011 5723	0	0	0	0	0.079	0.222	0	0.274	0.435
Pi	Slc 7a 4	10090.ENSM USP0000015 6049	10090.ENSM USP0000012 7280	0	0	0	0	0	0	0	0.513	0.513