

Table S1. List of the top 50 DEGs in GSE61144

Gene	adj. p-value	p-value	t	B	logFC
C11orf46	0.000304	1.45E-08	-8.13778	9.51894	-0.341
CDC91L1	0.000304	1.73E-08	-8.06147	9.36057	-0.329
RBMX	0.000304	1.87E-08	-8.02808	9.29097	-0.354
MS4A7	0.00034	2.80E-08	-7.85511	8.92772	-0.844
EXOSC8	0.000426	5.06E-08	-7.60278	8.38946	-0.452
ACTR5	0.000426	5.50E-08	-7.56803	8.31457	-0.334
NRD1	0.000426	7.55E-08	7.434865	8.02585	0.566
FCRL3	0.000426	7.87E-08	-7.4176	7.98823	-0.949
LOC440737	0.000544	1.12E-07	-7.27136	7.66771	-0.793
C10orf86	0.000564	1.54E-07	-7.13885	7.37452	-0.429
PRPS1	0.000564	1.60E-07	-7.1222	7.3375	-0.367
ZNF529	0.000564	1.73E-07	-7.09107	7.26818	-0.256
PPIE	0.000564	1.79E-07	-7.07693	7.23666	-0.455
PTPRE	0.000564	1.85E-07	7.062361	7.20413	0.453
RPL9	0.000587	2.11E-07	-7.00928	7.08537	-0.465
MRPS21	0.000587	2.17E-07	-6.99807	7.06025	-0.462
RPS27A	0.000657	2.56E-07	-6.92977	6.90675	-0.565
G6PD	0.000693	2.96E-07	6.872063	6.77654	0.619
LOC168850	0.000705	3.19E-07	-6.84134	6.70703	-0.23
NIN	0.00078	3.83E-07	6.767409	6.53921	0.382
QIL1	0.00078	4.00E-07	-6.74909	6.49753	-0.422
MGC2463	0.00078	4.18E-07	-6.73202	6.45863	-0.402
RERE	0.00078	4.30E-07	6.720112	6.43146	0.516
CD44	0.00078	4.37E-07	-6.71335	6.41603	-0.339
DDX47	0.00078	4.57E-07	-6.6959	6.37618	-0.475
KIAA0372	0.00078	4.76E-07	-6.67885	6.33722	-0.435
LOC441246	0.00078	4.81E-07	-6.67504	6.3285	-0.697
ACAA2	0.000843	5.64E-07	-6.61111	6.18198	-0.462
PAK1	0.000843	5.71E-07	6.60585	6.16991	0.537
CD47	0.000843	5.71E-07	-6.60578	6.16976	-0.42
LOC349236	0.000844	5.89E-07	6.593434	6.14138	0.655
USP32	0.00086	6.18E-07	6.573954	6.09659	0.555
ADCY4	0.000874	6.55E-07	6.550814	6.04331	0.585
FLJ20272	0.000874	6.65E-07	-6.54513	6.0302	-0.403
C6orf166	0.000874	6.97E-07	6.526163	5.98648	0.429
DBP	0.000874	7.40E-07	-6.50198	5.93065	-0.215
NHP2L1	0.000874	7.79E-07	-6.4817	5.88377	-0.343
FAM36A	0.000874	7.79E-07	-6.48164	5.88364	-0.299
LOC645385	0.000874	7.87E-07	-6.47749	5.87404	-0.787
GZMK	0.000874	7.89E-07	-6.47627	5.87122	-1.52
WDR54	0.000908	8.39E-07	-6.45192	5.81483	-0.562
EXOSC10	0.000909	8.59E-07	-6.44263	5.7933	-0.392
AOF2	0.000944	9.11E-07	-6.41921	5.739	-0.367

MDC1	0.000971	9.67E-07	-6.39553	5.68401	-0.37
PCGF4	0.000971	9.77E-07	-6.39128	5.67412	-0.42
BCL7C	0.000981	1.01E-06	-6.37894	5.64544	-0.319
LOC149224	0.000985	1.03E-06	-6.36959	5.62368	-0.54
INPP5A	0.00101	1.08E-06	6.351901	5.5825	0.466
NADK	0.001038	1.13E-06	6.333399	5.53939	0.671
BCCIP	0.001062	1.18E-06	-6.31699	5.50112	-0.281

Table S2. List of the top 50 DEGs in the brown module

Gene	colorNEW	kMEblue	kMEbrown	kMEgrey	kMEturquoise
CCNDBP1	brown	0.677089	-0.87308	-0.7335	-0.51697
PDCD2	brown	-0.57421	0.810704	0.784412	0.482102
LOC649049	brown	-0.81599	0.934625	0.835439	0.741804
MADD	brown	-0.84944	0.770199	0.752435	0.813797
MGMT	brown	-0.52787	0.801289	0.718771	0.375899
FAM3C	brown	-0.70479	0.85749	0.817453	0.682185
DDX47	brown	-0.91749	0.909343	0.877926	0.860684
DDX39	brown	-0.7998	0.882686	0.851569	0.768285
LOC646630	brown	-0.72326	0.766	0.681324	0.643667
ASF1A	brown	-0.61507	0.867027	0.783575	0.525686
NRD1	brown	0.851168	-0.84976	-0.87703	-0.79535
NOL7	brown	-0.63956	0.78173	0.699455	0.476235
ZNF259	brown	-0.57411	0.77582	0.66697	0.427824
ADARB1	brown	-0.85744	0.831793	0.854621	0.879338
CD40	brown	-0.47305	0.743623	0.665612	0.362053
LOC221143	brown	-0.64181	0.837447	0.84531	0.645069
PDCD7	brown	-0.6816	0.884543	0.806868	0.577635
RPLP0	brown	-0.80812	0.819797	0.775202	0.802248
MGA	brown	-0.40538	0.782154	0.684436	0.281649
LOC648622	brown	-0.5577	0.864104	0.674433	0.300723
PSTPIP1	brown	0.675053	-0.77351	-0.5615	-0.36729
SLCO4C1	brown	0.809538	-0.8199	-0.75922	-0.72063
FBXL11	brown	0.869373	-0.83247	-0.77273	-0.74831
CPSF3	brown	-0.61802	0.774376	0.776723	0.580867
MYD88	brown	0.858522	-0.78293	-0.772	-0.7944
SOCS2	brown	-0.54009	0.725891	0.571341	0.299448
HMG1	brown	-0.70215	0.864741	0.656478	0.420687
LOC642817	brown	-0.69155	0.920724	0.743657	0.469475
ATG9A	brown	0.73166	-0.74226	-0.77435	-0.7436
WWP1	brown	-0.69145	0.883762	0.831423	0.546634
CEBPZ	brown	-0.31656	0.691373	0.606854	0.117404
LOC347292	brown	-0.59695	0.874123	0.686718	0.35709
LOC644039	brown	-0.50708	0.85716	0.74351	0.327588
SETX	brown	0.803397	-0.72016	-0.69212	-0.78582
ZXDB	brown	-0.71733	0.81025	0.856452	0.747241
HOP	brown	-0.54878	0.792151	0.624609	0.302408

RPL3	brown	-0.8043	0.938947	0.848476	0.71594
RPS20	brown	-0.79405	0.952941	0.856749	0.683831
ZMYND11	brown	-0.48998	0.849861	0.698426	0.287815
LOC440733	brown	-0.86683	0.822515	0.818049	0.857784
DKFZP779L1558	brown	-0.54022	0.843115	0.698475	0.32388
STK19	brown	0.628639	-0.80286	-0.70032	-0.42464
KIAA1949	brown	0.681257	-0.75757	-0.6747	-0.44192
DC2	brown	-0.78499	0.809173	0.767472	0.774327
RPS27A	brown	-0.7438	0.925202	0.86605	0.640842
COX6C	brown	-0.88783	0.893342	0.827248	0.811088
DNM1L	brown	-0.59581	0.805104	0.736913	0.467038
RPL26	brown	-0.80152	0.868839	0.775376	0.682135
ZC3H8	brown	-0.55943	0.778325	0.791767	0.506286
MYL6	brown	0.800516	-0.83991	-0.79117	-0.70642

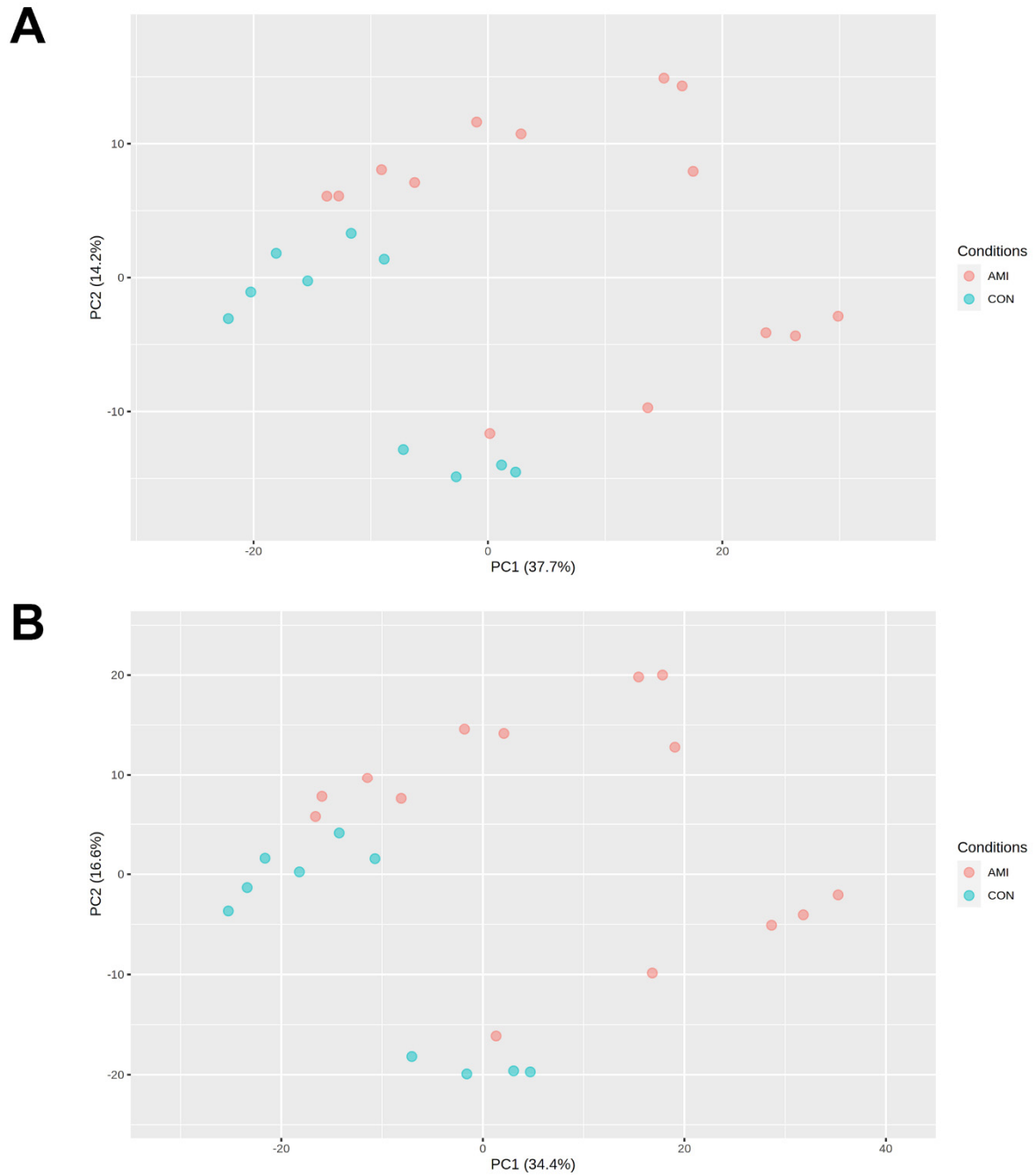


Figure S1. Data quality checking and normalization with log2 transformation. PCA plots before (A) and after (B) batch correction.