

Supplementary Table 13: List of enriched pathways for 666 genes in module 31 from WGCNA analysis

Function	FDR	Genes in network	Genes in genome
T cell activation	1.69E-19	66	452
regulation of cell activation	1.18E-14	58	593
regulation of leukocyte activation	1.18E-14	56	556
regulation of lymphocyte activation	5.95E-14	51	480
regulation of T cell activation	8.83E-12	42	309
antigen receptor-mediated signaling pathway	4.21E-11	36	258
positive regulation of leukocyte activation	1.27E-09	39	379
positive regulation of cell activation	2.75E-09	40	391
positive regulation of lymphocyte activation	7.78E-09	37	341
T cell receptor signaling pathway	8.36E-09	27	144
T cell receptor signaling pathway	8.36E-09	21	99
immune response-activating cell surface receptor : T cell receptor complex	1.86E-08	41	409
positive regulation of T cell activation	3.29E-08	10	17
cellular defense response	3.64E-08	30	204
immune response-regulating cell surface receptor	1.50E-07	15	58
T cell differentiation	5.57E-07	45	440
lymphocyte costimulation	3.73E-06	37	236
T cell costimulation	5.81E-06	14	56
lymphocyte differentiation	5.81E-06	14	55
leukocyte differentiation	6.12E-06	48	346
hemopoiesis	1.58E-05	56	505
external side of plasma membrane	2.58E-05	69	831
hematopoietic or lymphoid organ development	9.66E-05	43	365
immune system development	0.00010501	73	872
lymphocyte migration	0.00010501	77	918
B cell activation	0.00012429	15	103
cytokine receptor activity	0.00017007	30	309
side of membrane	0.00020042	14	94
receptor complex	0.00078533	55	560
leukocyte migration	0.00088427	41	396
T cell apoptotic process	0.0009346	36	476
leukocyte mediated immunity	0.00108952	10	51
signaling adaptor activity	0.00125424	52	867
T cell migration	0.00128438	12	80
lymphocyte apoptotic process	0.00206739	11	58
lymphocyte proliferation	0.003853	11	72
SH3/SH2 adaptor activity	0.00455017	30	268
mononuclear cell proliferation	0.00517188	10	54
alpha-beta T cell activation	0.00526335	30	270
leukocyte proliferation	0.00961377	25	131
adaptive immune response	0.00988882	31	287
CD4-positive, alpha-beta T cell activation	0.01106184	64	614
lymphocyte mediated immunity	0.01656242	12	86
leukocyte apoptotic process	0.01656242	31	345
regulation of leukocyte mediated immunity	0.01757722	13	103
regulation of natural killer cell mediated immunity	0.01768682	19	190
regulation of T cell apoptotic process	0.0176964	12	42
immunological synapse	0.0176964	8	37
SH2 domain binding	0.02453644	12	35
regulation of lymphocyte differentiation	0.02681714	8	33
regulation of lymphocyte proliferation	0.03705731	20	168
regulation of lymphocyte proliferation	0.04707768	25	208