

Table SII. DEGs were significantly enriched in 32 pathways.

ID	Description	GeneRatio	BgRatio	pvalue	p.adjust	geneID	Count
hsa04640	Hematopoietic cell lineage	42/561	97/6808	5.10x10 ⁻²¹	1.03x10 ⁻¹⁸	1438/952/914/3109/915/3575/3676/3122/3108/3115/925/920/931/951/3113/924/1436/921/3684/916/930/917/3574/1380/3111/912/911/7124/3559/3563/2322/945/929/926/933/3553/1378/3570/3117/966/1435/3119	42
hsa04064	NF-kappa B signaling pathway	40/561	100/6808	1.47x10 ⁻¹⁸	1.48x10 ⁻¹⁶	10673/5579/330/3932/7412/7128/4050/5588/3383/4615/8740/7535/23586/959/695/5971/23643/4791/6363/958/4790/4067/597/84433/7099/6850/29760/7124/7185/1540/51135/6357/6366/4049/8837/4792/929/3553/10892/329	40
hsa04062	Chemokine signaling pathway	55/561	190/6808	1.65x10 ⁻¹⁷	1.11x10 ⁻¹⁵	729230/3702/5880/1234/6772/5579/1236/2833/3627/6373/6352/1230/4283/10563/6355/10663/6347/653361/5294/5293/3579/7409/2185/6363/1237/4790/4067/3055/10235/2829/6356/5594/23533/998/6357/3717/6366/2268/7454/57580/4792/9844/54331/25759/6354/5906/7852/9564/409/6362/156/1233/157/109/6773	55
hsa04060	Cytokine-cytokine receptor interaction	68/561	294/6808	8.59x10 ⁻¹⁶	4.34x10 ⁻¹⁴	729230/10673/1439/1438/3560/1234/3587/3561/3600/3601/608/3575/3594/1236/2833/3627/6373/6352/1230/4283/10563/6355/8807/920/10663/4050/7133/50615/6347/8740/8809/1436/3579/959/3458/355/6363/958/1237/3604/3574/356/2829/3459/6356/8797/7124/9235/6357/6366/3559/8743/4049/3563/9466/944/3623/7293/6354/3606/3553/7852/6362/3570/8764/7048/1233/1435	68
hsa04659	Th17 cell differentiation	37/561	107/6808	7.73x10 ⁻¹⁵	3.12x10 ⁻¹³	3560/6772/3561/3109/915/3932/3122/3108/3594/919/3115/3662/30009/920/5588/50615/3113/7535/3458/916/917/4790/3111/3459/5594/4794/3717/3559/9466/4792/6776/3553/3570/7048/3117/196/3119	37
hsa04514	Cell adhesion molecules (CAMs)	41/561	146/6808	7.83x10 ⁻¹³	2.64x10 ⁻¹¹	29851/3683/6402/914/3109/942/3134/3676/3122/201633/3108/7412/6404/3115/925/920/3383/3113/3689/	41

						3105/3133/959/3684/6401/958/923/6614/1493/3111/10666/940/941/64115/80380/29126/965/926/933/6693/3117/3119	
hsa04658	Th1 and Th2 cell differentiation	31/561	92/6808	2.76x10 ⁻¹²	7.96x10 ⁻¹¹	3560/6772/3561/3109/915/3932/3122/3108/3594/919/3115/30009/920/5588/3113/7535/3458/916/917/4790/864/3111/3459/5594/4794/3717/3559/4792/6776/3117/3119	31
hsa04660	T cell receptor signaling pathway	32/561	101/6808	8.08x10 ⁻¹²	2.04x10 ⁻¹⁰	29851/3702/3937/915/3932/919/925/10125/920/5588/7535/5293/959/3458/7409/916/917/4790/1493/84433/940/5777/5594/7124/998/4794/4690/4792/926/10892/9402/10298	32
hsa04621	NOD-like receptor signaling pathway	44/561	178/6808	1.35x10 ⁻¹¹	3.03x10 ⁻¹⁰	834/6772/114769/1536/330/3428/9447/4939/7128/2633/6352/115361/2634/4938/6347/4615/9051/4940/3665/114548/837/2635/4790/51393/7099/5594/7124/51135/10010/1535/340061/5027/4792/10628/84674/3606/3553/3709/118429/64127/58484/329/10059/6773	44
hsa04380	Osteoclast differentiation	36/561	128/6808	1.96x10 ⁻¹¹	3.96x10 ⁻¹⁰	3937/6772/3932/55423/4689/10288/11006/653361/5293/1436/4688/3458/695/54/5971/4791/4790/7305/2213/6688/6850/9021/3459/2212/29760/5594/7124/1540/1535/3726/10326/4792/3553/7048/1435/6773	36
hsa04612	Antigen processing and presentation	27/561	77/6808	2.53x10 ⁻¹¹	4.64x10 ⁻¹⁰	3109/3134/3122/3108/3115/925/1520/920/3113/3105/3133/5720/3458/6892/567/3111/5721/3824/6891/5993/7124/4261/1514/926/10197/3117/3119	27
hsa04650	Natural killer cell mediated cytotoxicity	36/561	131/6808	4.09x10 ⁻¹¹	6.88x10 ⁻¹⁰	3683/3937/5880/3002/5579/3932/4068/919/3383/7535/5551/3689/3105/3133/5293/3458/7409/355/2185/2207/7305/4277/356/5777/3824/6850/3459/8797/5594/7124/8743/259197/25759/836/51744/9437	36
hsa04668	TNF signaling pathway	32/561	110/6808	1.01x10 ⁻¹⁰	1.57x10 ⁻⁹	3659/3600/330/7412/7128/3627/6352/197259/3383/7133/6347/8809/5293/355/6401/4790/9021/5594/7124/7185/3726/4049/8837/4792/843/90993/836/3553/64127/329/1435/10	32

						059	
hsa04662	B cell receptor signaling pathway	25/561	71/6808	1.26x10 ⁻¹⁰	1.82x10 ⁻⁰⁹	5880/5579/3635/973/5293/118788/695/974/7409/930/4790/4067/1380/2213/84433/5777/6850/29760/5594/4794/971/4792/933/10892/25780	25
hsa04672	Intestinal immune network for IgA production	20/561	49/6808	4.37x10 ⁻¹⁰	5.88x10 ⁻⁰⁹	29851/10673/3109/3600/942/3601/608/3676/3122/3108/3115/3113/959/958/3111/940/941/7852/3117/3119	20
hsa04940	Type I diabetes mellitus	15/561	30/6808	2.21x10 ⁻⁰⁹	2.79x10 ⁻⁰⁸	3002/3109/3134/3122/3108/3115/3113/3105/3133/3458/355/3111/3553/3117/3119	15
hsa04145	Phagosome	34/561	152/6808	4.67x10 ⁻⁰⁸	5.55x10 ⁻⁰⁷	1536/3109/3134/3122/3108/4689/3115/1520/11151/3113/4360/653361/3689/3105/3133/7097/4688/3684/718/2213/3111/7099/64581/6891/2212/1535/1514/715/929/10333/1783/3117/526/3119	34
hsa04620	Toll-like receptor signaling pathway	26/561	104/6808	1.80x10 ⁻⁰⁷	2.02x10 ⁻⁰⁶	6772/942/51284/7096/3627/6373/6352/4283/4615/5293/51311/7098/7097/3665/23643/958/4790/7099/941/5594/7124/51135/4792/929/10333/3553	26
hsa04670	Leukocyte transendothelial migration	25/561	112/6808	3.01x10 ⁻⁰⁶	3.20x10 ⁻⁰⁵	3683/3702/5880/1536/5579/3676/4689/7412/83593/3383/399/653361/3689/5293/4688/7409/3684/2185/998/1535/7294/5906/7852/9564/4478	25
hsa04210	Apoptosis	26/561	136/6808	3.66x10 ⁻⁰⁵	0.000369	1439/3002/330/1520/1075/1521/5551/5293/355/4790/597/356/8797/5594/7124/7185/1512/8743/1514/8837/3563/4792/843/836/3709/329	26
hsa04217	Necroptosis	29/561	162/6808	4.74x10 ⁻⁰⁵	0.000456	834/6772/1536/330/7128/197259/7098/3458/114548/355/81030/7099/356/3459/8797/7124/1540/3717/8743/8837/8605/5610/6776/124044/3553/292/329/10059/6773	29
hsa04625	C-type lectin receptor signaling pathway	20/561	104/6808	0.000263	0.002417	834/6772/3659/5293/5971/114548/4791/2207/4790/64581/6850/5594/7124/1540/1959/4792/3553/10892/3709/6773	20
hsa04623	Cytosolic DNA-sensing pathway	14/561	63/6808	0.000479	0.004206	834/9447/3627/6352/23586/3665/4790/81030/103/340061/4792/115004/3606/3553	14

hsa04610	Complement and coagulation cascades	16/561	79/680 8	0.000 587	0.004939	719/3689/5265/3684/713/712/718/1380/710/716/3687/714/715/1378/2161/966	16
hsa04664	Fc epsilon RI signaling pathway	14/561	68/680 8	0.001 076	0.008691	3937/5880/3635/241/5293/695/7409/2207/4067/6850/5594/240/7124/8605	14
hsa04933	AGE-RAGE signaling pathway in diabetic complications	18/561	100/68 08	0.001 19	0.009247	6772/1536/5579/7412/3383/6347/5293/6401/4790/5594/7124/998/3717/6776/836/7422/3553/7048	18
hsa04630	JAK-STAT signaling pathway	25/561	162/68 08	0.001 543	0.011545	1439/1438/3560/3587/6772/3561/3600/3601/3575/3594/50615/5293/3458/3574/5777/9021/3459/316/3717/3559/3563/9466/6776/3570/6773	25
hsa04611	Platelet activation	20/561	124/68 08	0.002 609	0.01882	3937/10125/5294/5293/695/2207/4067/10235/6850/2212/54518/5594/23533/5023/6916/8605/64805/5906/3709/109	20
hsa04666	Fc gamma R-mediated phagocytosis	16/561	91/680 8	0.002 81	0.01957	5880/5579/3635/653361/5293/7409/4067/2213/3055/6850/2212/5594/998/7454/23396/8398	16
hsa04010	MAPK signaling pathway	38/561	295/68 08	0.003 499	0.023558	5880/5579/10125/5778/4615/1436/1844/5971/6197/355/4791/11184/4790/10235/356/4208/784/5594/7124/998/51135/1850/8605/2322/929/8912/836/7422/9175/5906/3553/409/25780/5228/1944/7048/1435/776	38
hsa04622	RIG-I-like receptor signaling pathway	13/561	70/680 8	0.004 184	0.027264	3627/79132/23586/3665/64135/4790/9636/7124/1540/10010/340061/4792/843	13
hsa04014	Ras signaling pathway	31/561	232/68 08	0.004 666	0.029453	5880/5579/10125/83593/7535/26279/5293/1436/23179/64926/4790/2113/10235/356/5594/998/8831/8605/2322/9771/54331/25759/7422/5906/5863/25780/5228/8398/10298/1944/1435	31