

TableS1: Forward(F) and Reverse(R) primer sequences of top 5 DEGs in upregulated and downregulated groups

Gene Name		Sequence (5' -> 3')
Tmem176a	F	GCCGGATGCTCATTGCTAAG
	R	ATGGCCTATGTAGAGGGTTCC
Suclg2	F	GGAGTGAGAGTGCAGAGGTT
	R	AACACCTCCTTTCAAACCGC
Ccdc86	F	CGGATCACCCGGTCCTAGA
	R	GGGGAGGTAATTTGGATGGCT
Scn9a	F	TGGATTCCCTTCGTTACAGA
	R	GTCGCAGATACATCCTCTTGTTT
Ctsc	F	GTTCCCGAAGCGACATTAAT
	R	TCGTAGGCAGTATCCAATTCTT
Ctdnep1	F	TAGAAGTGGTAAGCCAGTGGT
	R	GTGCAGTGCTGTCTGTAGT
Rom1	F	CTCCAACCCCGTATCCGTTTG
	R	GAGCAGGGAATGAACAAGAGG
Susd2	F	GGCAATACTACGGCACTTCAG
	R	CTCATAGCCCCACAGCTCAAT
Gtpbp8	F	GCAGCGGCTAGGTTGAGTC
	R	GGGACGTGCTGTAAACCCG
Fggy	F	ATTTGCTTTTCAACCCTATCCCC
	R	AGCCTTCTTAATCAGATCCAGGT

TableS2: Relationships between Hub DEGs and potential candidate drugs from DGIdb database.

Gene	Drug	Gene	Drug
IL1B	Gallium Nitrate	TNF	Pomalidomide
	Rilonacept		Infliximab
	Minocycline		Certolizumab Pegol
	Canakinumab		Adalimumab
	Donepezil		Etanercept
	Melatonin		Inamrinone
	Verapamil		Thalidomide
	Tiludronic Acid		Golimumab
	Binimetinib		Epinephrine
	Hydroquinone		Clenbuterol
	Pentoxifylline		Pseudoephedrine
	Diacerein		Chloroquine
	Lansoprazole		Methylene Blue
	Infliximab		Stavudine
	Aspirin		Rifampin
	Ustekinumab		Miltefosine
	Risedronic Acid		Carboplatin
	Hydrocortisone		Amphotericin B
	Glucosamine		Isoniazid
	Morphine		Ethambutol
	Raloxifene		Binimetinib
	Nicardipine		Gentamicin
	Pentamidine		Meropenem
	Acitretin		Pentoxifylline
	Pravastatin		Lenalidomide
	Erythromycin		Carbamazepine
	Omeprazole		Atorvastatin
	Alteplase		Sorafenib
	Cefaclor		Lactulose
	Thyroglobulin		Bupivacaine
	Rabeprazole		Alteplase
	Ofloxacin		Midazolam
	TLR7		Imiquimod
Hydroxychloroquine		Insulin	
Hydroxychloroquine Sulfate		Cefotaxime	
Chloroquine		Methimazole	
TLR4	Naloxone	Digoxin	
	Mifamurtide	Glucosamine	

	Cyclobenzaprine		Gemcitabine
	Nelfinavir		Risperidone
	Pravastatin		Propylthiouracil
	Tacrolimus		Omeprazole
	Ritonavir		Spirolactone
	Alcohol		Pyridoxine
	Methotrexate		Rabeprazole
	Infliximab		Pyrazinamide
	Saquinavir		Glimepiride
CXCL10	Methylprednisolone		Hydroxychloroquine
	Ritonavir		Cyclosporine
	Stavudine		Pomalidomide
	Atorvastatin	MYD88	Ibrutinib
	Atropine		Fentanyl
	Testosterone		Vorinostat
	Oxaliplatin		

Supplementary Figures Legend:

Fig. 1S: The GO annotation and KEGG analysis results of DEGs contained in three vital

PPI modules. 1sa: the comprehensive analysis of DEGs extracted from three vital PPI modules in the KEGG database. 1sb-d: represented the biological processes (BPs), cellular components (CCs) and molecular functions (MFs) analysis results for DEGs in three PPI modules.

Fig. 2S: Matching results between differential expressed genes(DEGs) and transcription

factors(TFs). 2a: the comprehensive analysis of whole DEGs- TFs matching results. 2b: one important module of DEGs-TFs after filtered by MCODE. Grey circles stand for DEGs and blue circles stand for TFs.

Fig S1

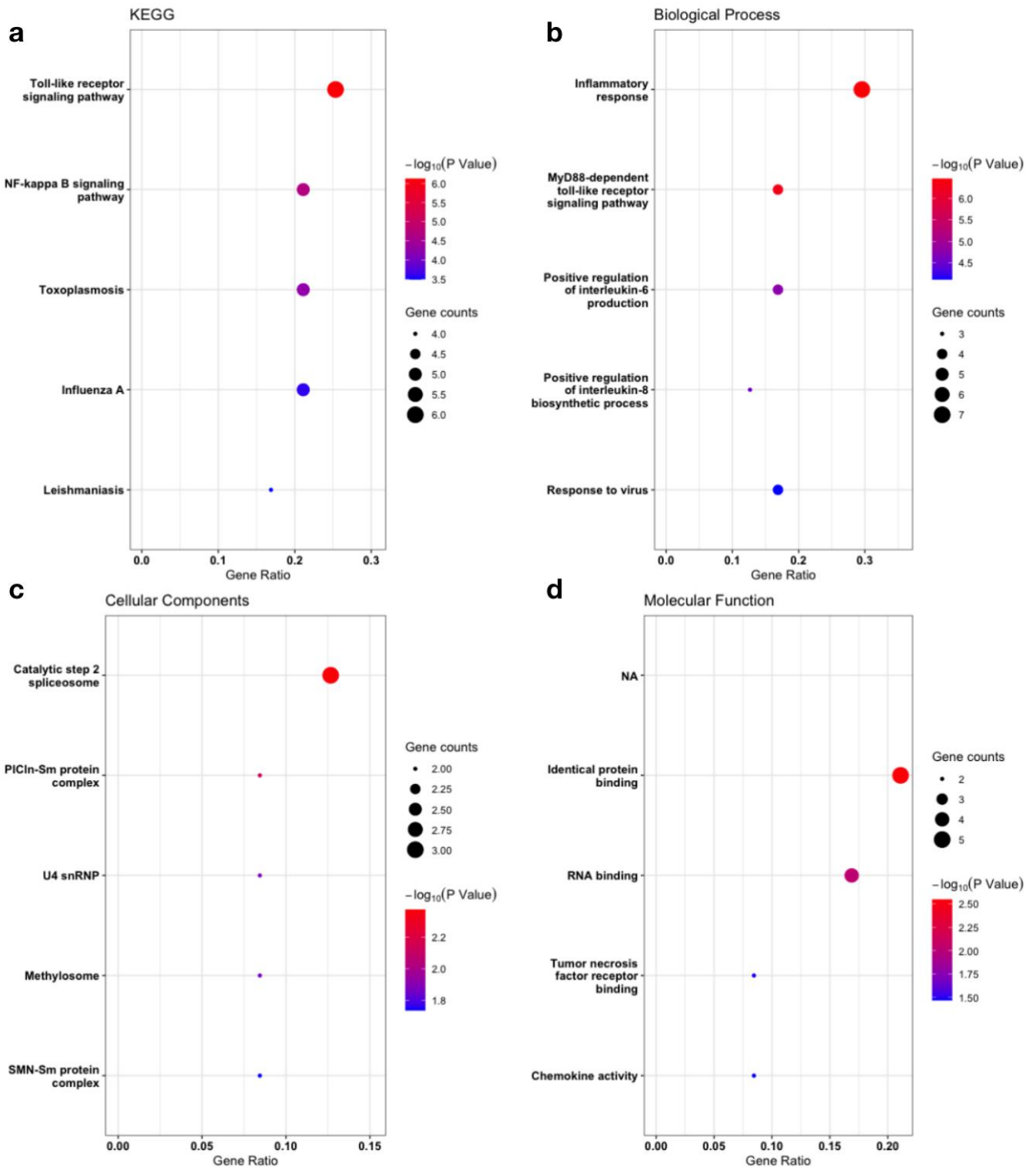
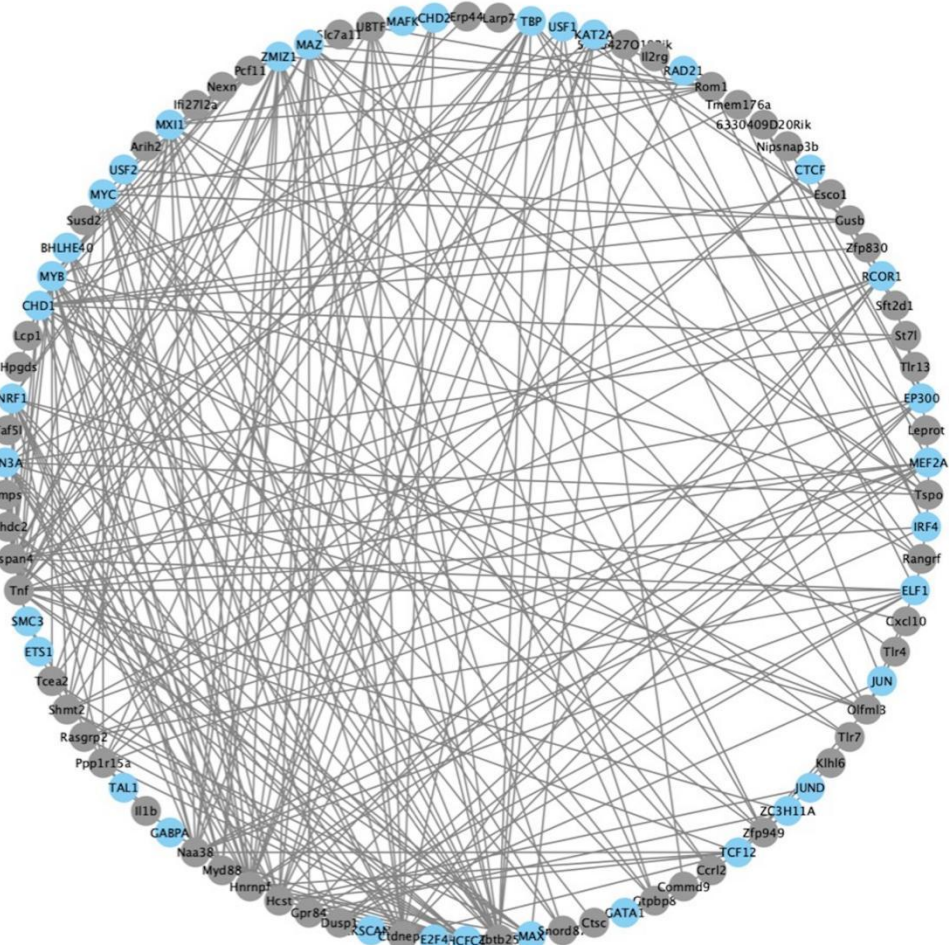


Fig S2

a



b

