

Potential Biomarkers for Asthma

- 1, Download sequencing data related to asthma from GEO database.
- 2, Different expression analysis ($p < 0.01$, cutoff, 2).

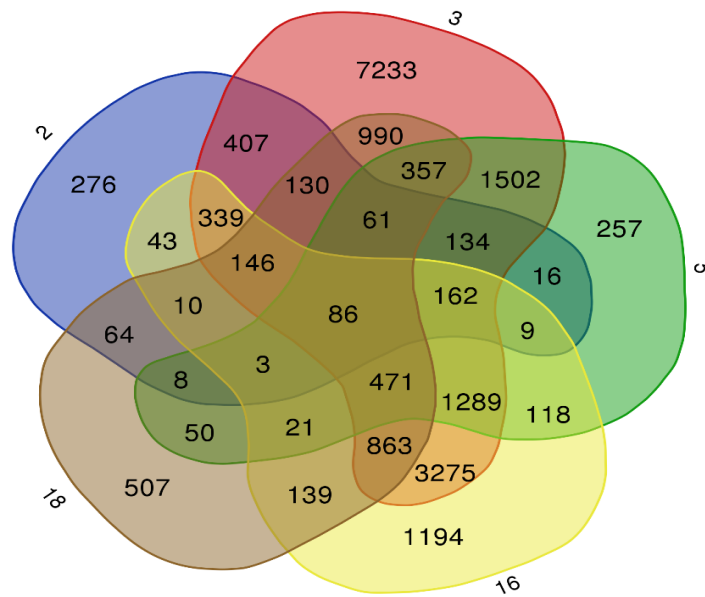


Figure 1. Intersection set of gene list.

3. Enrichment analysis (www.metascape.com)

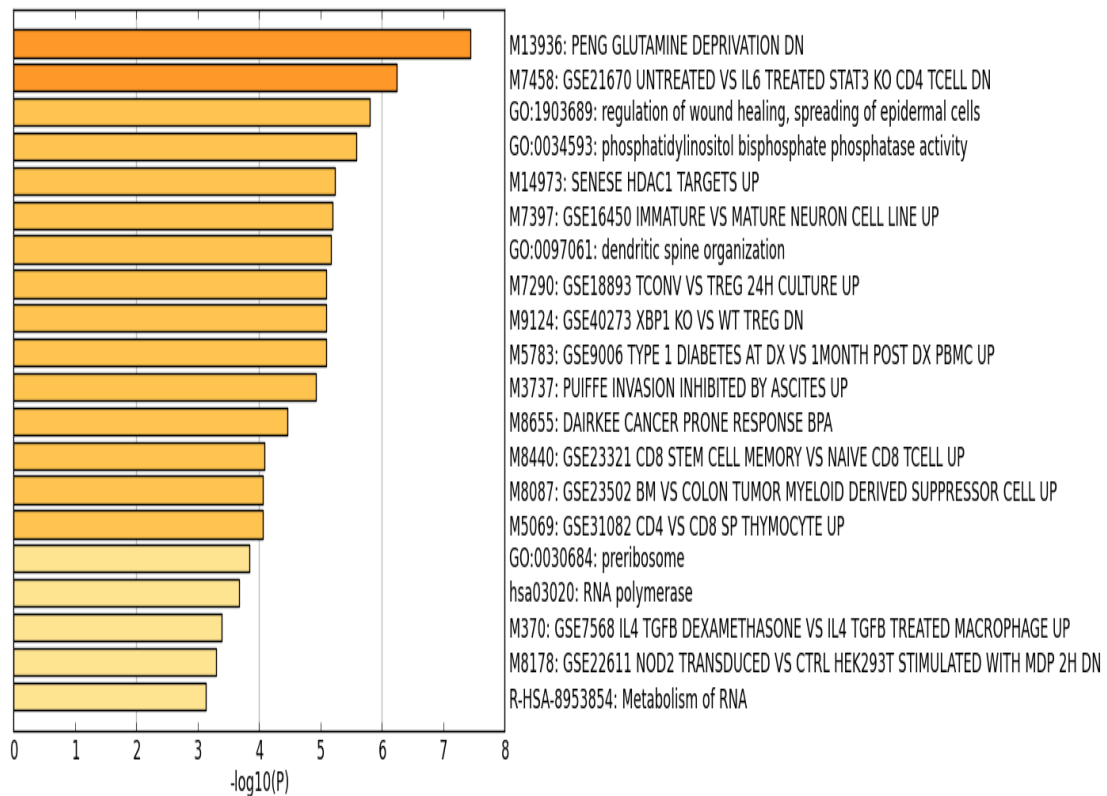


Figure 2. Enrichment summary

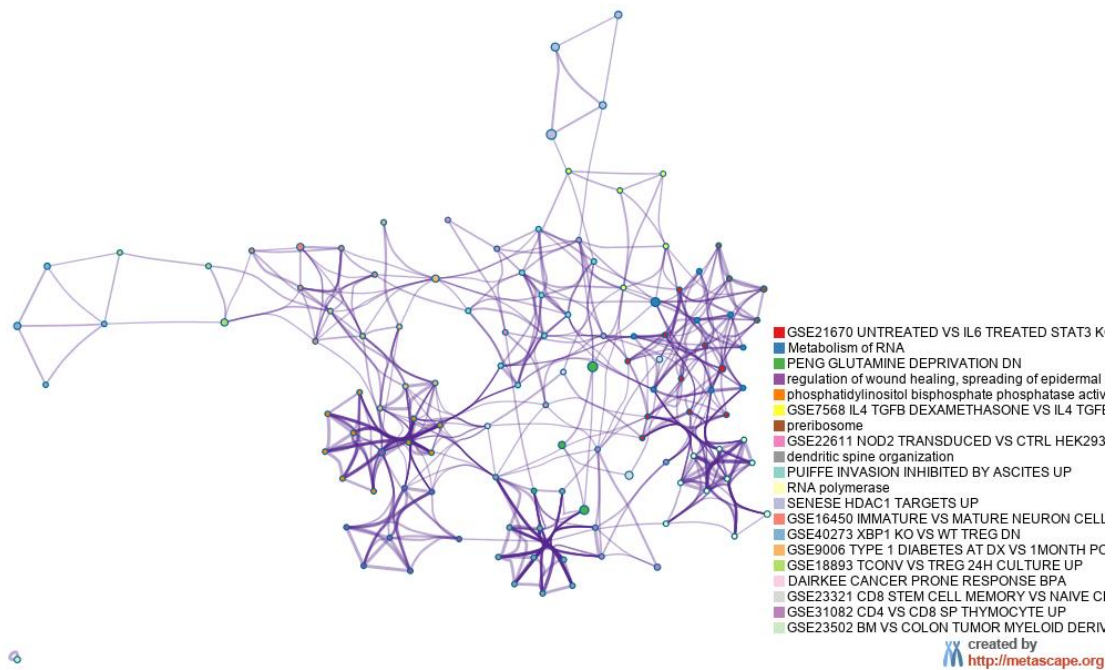


Figure 3. Enriched ontology clusters. Colored by cluster ID.

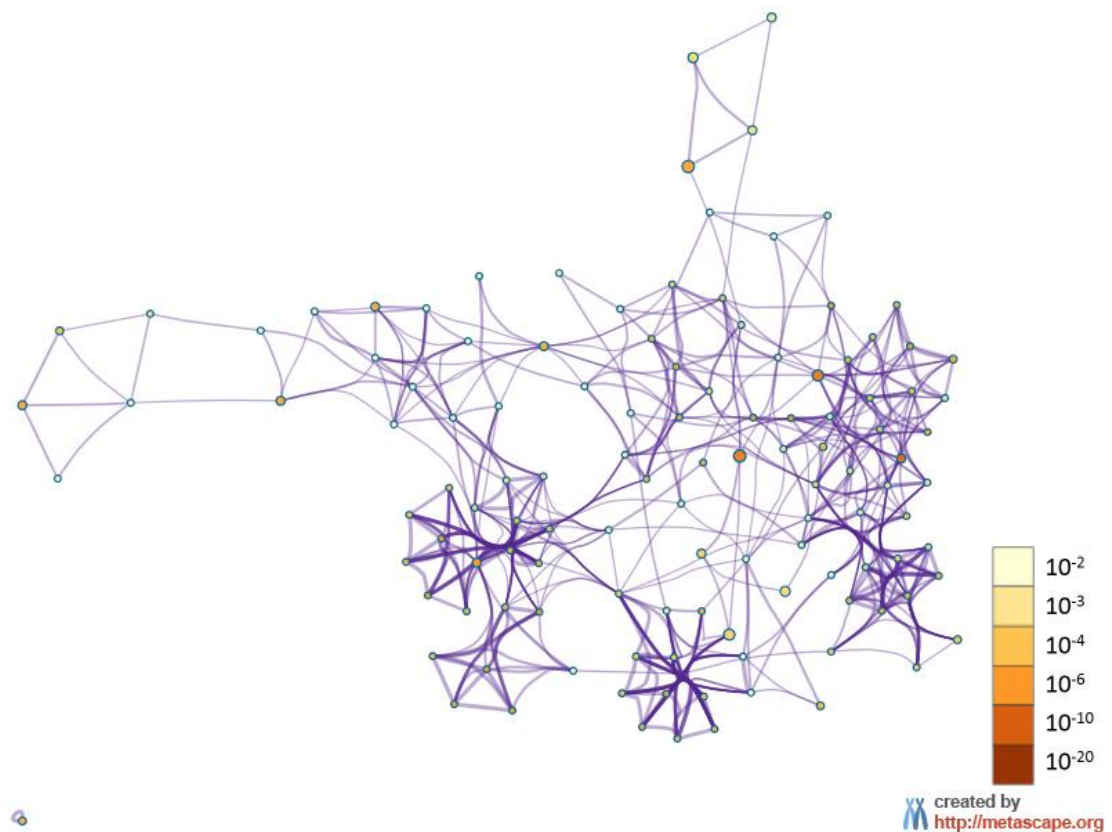


Figure 4. Enriched ontology clusters. Colored by p-value.

5. Hub genes analysis (Cytohubba)

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O
1	name	Between	BottleN	Closene	Cluster	Degree	DMNC	EcCentri	EPC	MCC	MNC	Radiality	Stress		
2	ACLY	715.5476	37	20.75	0.2	11	0.26253	0.25	16.94	28	9	7.02778	1472		10
3	POLR1B	350.1524	31	20.6	0.27273	11	0.358	0.2	17.506	66	9	6.91667	970		10
4	POLR3A	250.9714	4	18.6	0.42857	7	0.42794	0.2	16.727	33	6	6.80556	568		10
5	ALDH18A1	61.49048	5	17.68333	0.38095	7	0.2927	0.2	16.51	18	7	6.61111	238		9
6	PDCD11	93.01429	1	18.93333	0.44444	9	0.38186	0.2	17.193	68	9	6.72222	286		8
7	POLR2D	270.5238	6	16.21667	0.4	5	0.46346	0.16667	14.281	8	3	6.33333	756		8
8	PES1	1.3	1	15.21667	0.9	5	0.58344	0.16667	16.064	48	5	6.13889	6		7
9	NOL6	1.3	1	15.21667	0.9	5	0.58344	0.16667	15.826	48	5	6.13889	6		7
10	FARSA	26.2	1	15.63333	0.5	4	0.46346	0.2	14.882	7	3	6.38889	90		6
11	IGF1R	320	7	14.73333	0	2	0	0.2	8.756	2	1	6.44444	572	6	8
12	FUS	87.57143	2	13.52857	0.5	5	0.47366	0.14286	11.365	13	4	5.55556	238	6	8
13	PTBP1	47.04762	1	14.1119	0.5	5	0.47366	0.14286	12.19	13	4	5.66667	152		8
14	WDR74	0	1	14.46667	1	4	0.56839	0.16667	14.981	24	4	6.05556	0		8
15	ASB6	158	4	14.1	0	2	0	0.2	8.256	2	1	6.27778	284	5	4
16	PTEN	314	6	13.58333	0	4	0	0.16667	6.106	4	1	5.88889	524		3
17	ACSS1	71	2	14.58333	0.33333	4	0.30898	0.2	12.432	5	3	6.16667	172		3
18	U2AF2	17.57143	2	13.02857	0.83333	4	0.47366	0.14286	11.313	12	4	5.52778	102	5	3

Figure 7. Evaluation of differential genes

6. Verification by experiments