

Figure 1

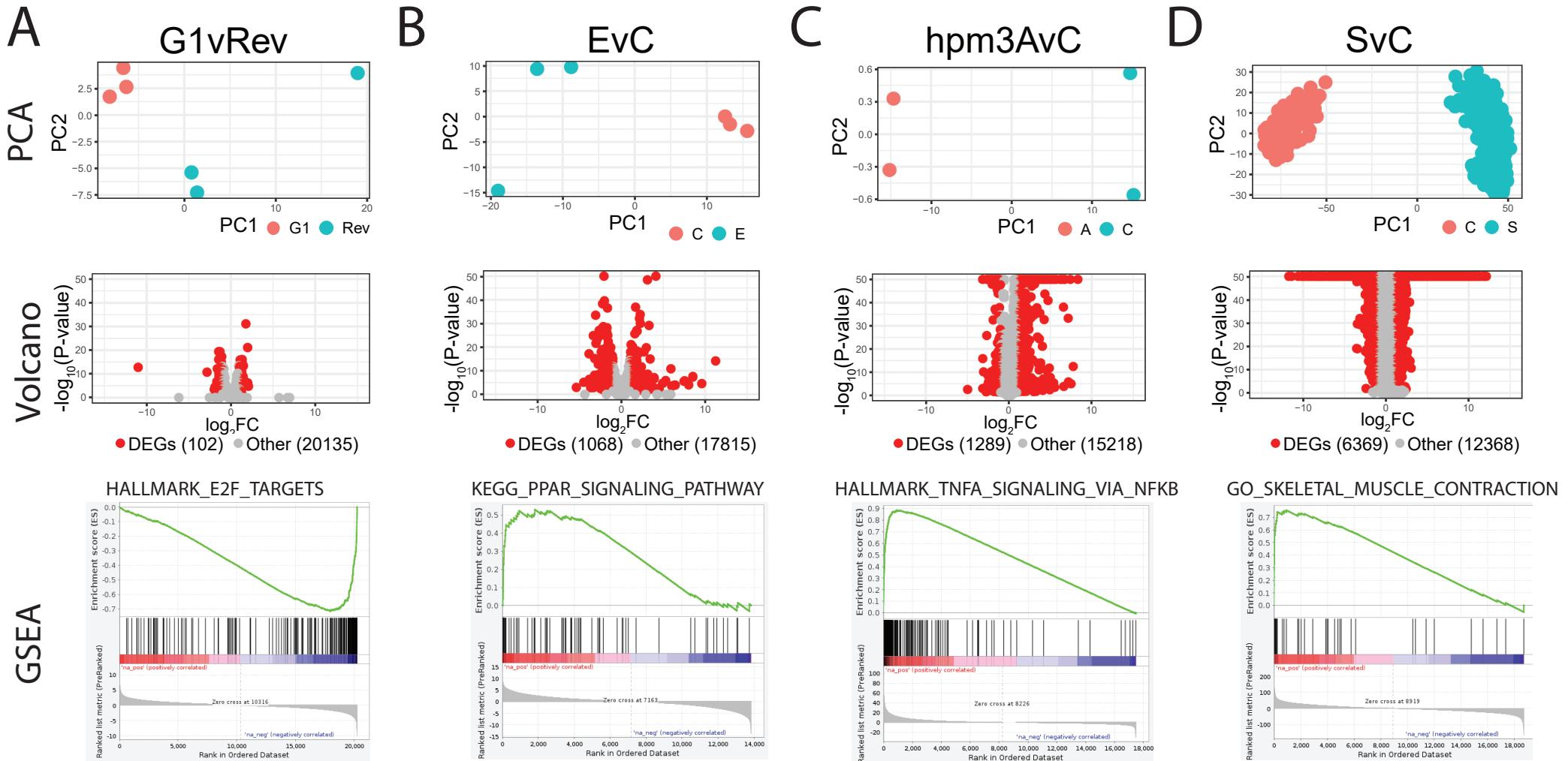
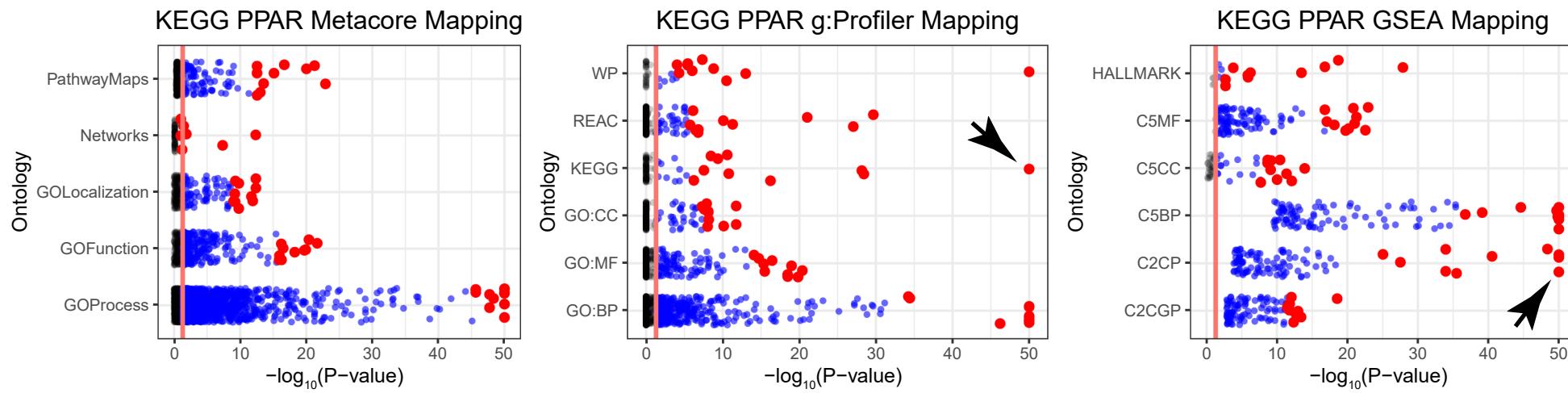


Figure 2

A



Lorem ipsum

B

termID	termName
GO:0022402	cell cycle process
GO:0000278	mitotic cell cycle
GO:1903047	mitotic cell cycle process*
GO:0007049	cell cycle
GO:0006259	DNA metabolic process
GO:0051276	chromosome organization
GO:0006260	DNA replication
GO:0044770	cell cycle phase transition
GO:0044772	mitotic cell cycle phase transition*
GO:0006974	cellular response to DNA damage stimulus
GO:0006281	DNA repair
GO:0090304	nucleic acid metabolic process*
GO:0007067	mitotic nuclear division*
GO:0051301	cell division
GO:0006139	nucleobase-containing compound metabolic process*
GO:0051726	regulation of cell cycle
GO:0000722	telomere maintenance via recombination
GO:0007062	sister chromatid cohesion
GO:0006297	nucleotide-excision repair, DNA gap filling
GO:0006270	DNA replication initiation
GO:1901796	regulation of signal transduction by p53 class mediator
GO:0000082	G1/S transition of mitotic cell cycle*

SetSize	DAVID DIRECT	DAVID ALL	GSEA	g:profiler	Metacore
1422		1	1	1	3
1053		2	3	4	2
880		3		2	4
1881	50	4	2	3	1
943	43	5	5	5	6
1253		6	4	6	5
273	1	7	7	7	8
647		8	6	8	11
432		9		9	14
865	17	12	8	10	7
563	7	15	9	11	16
2955		17		24	10
217	6	18			45
603	3	19	12	17	32
3616		20		20	9
1226		23	10	16	17
13	4	30		327	372
63	5	35	73	84	113
23	9	61	61	68	111
39	8	66	57	73	96
180	10	71	71	104	102
221	2			30	47

C

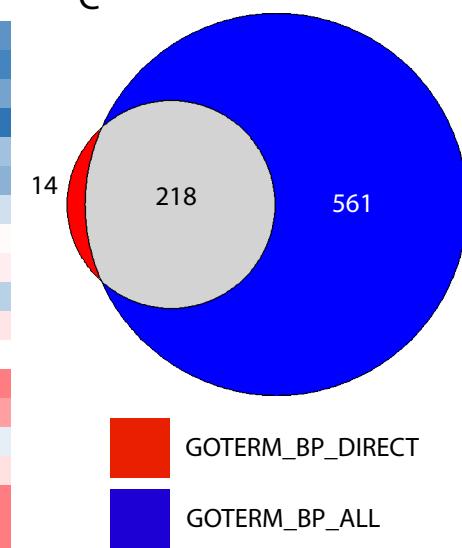
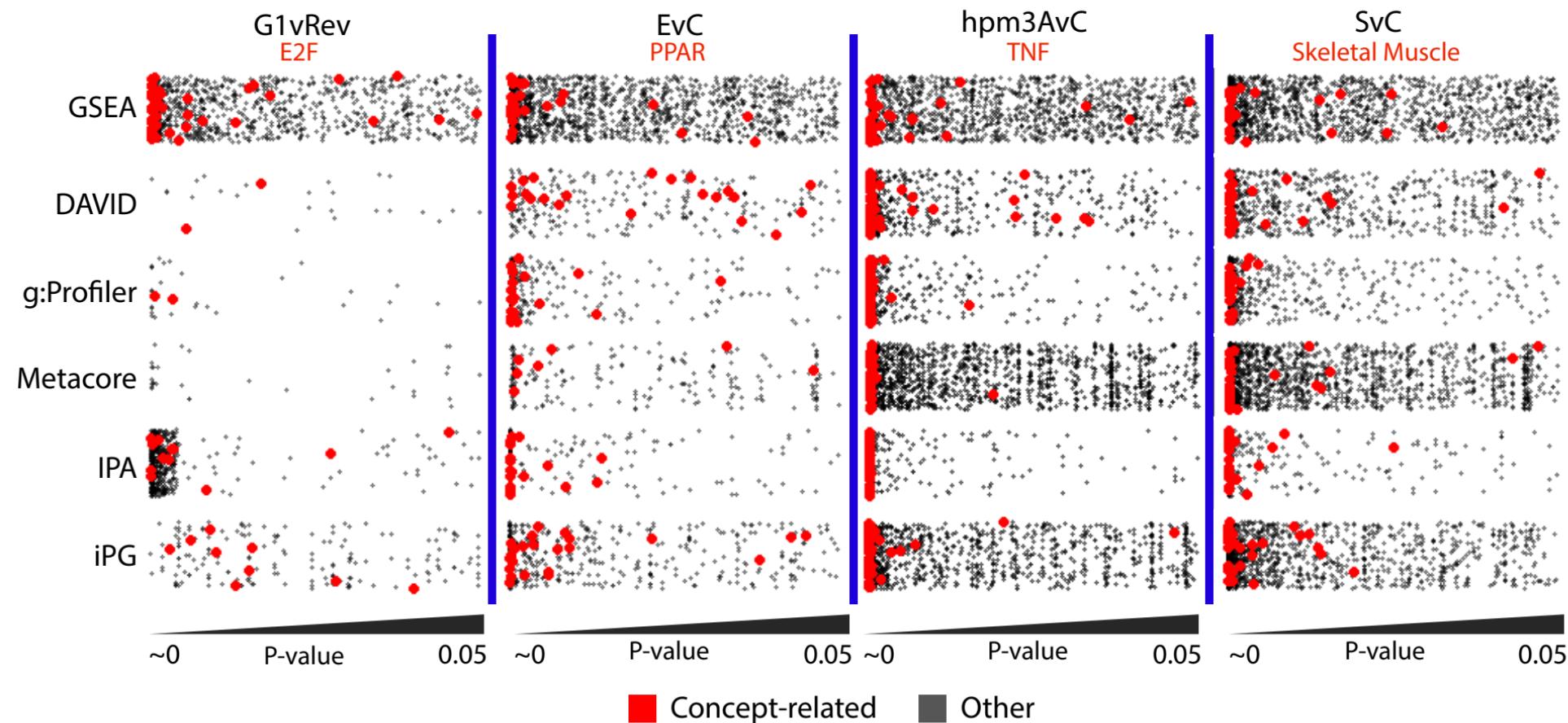


Figure 3



# Figure 4

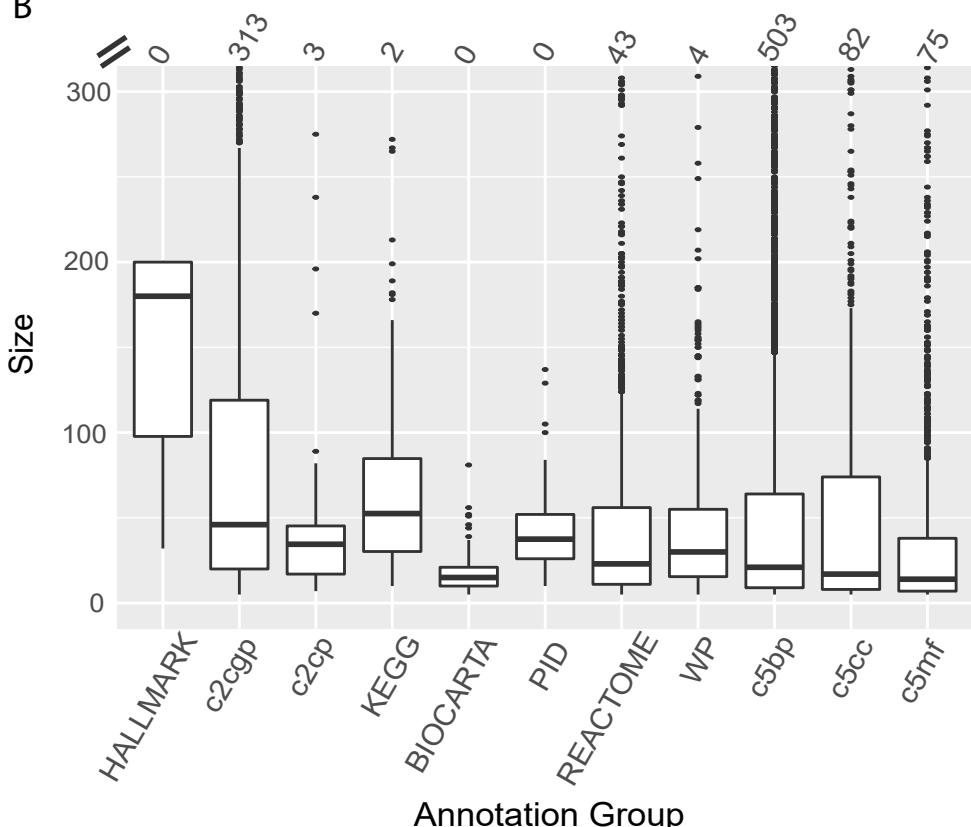
A

a # DEGs in Set	c # non-DEGs in Set
b # DEGs not in Set	d # Genes

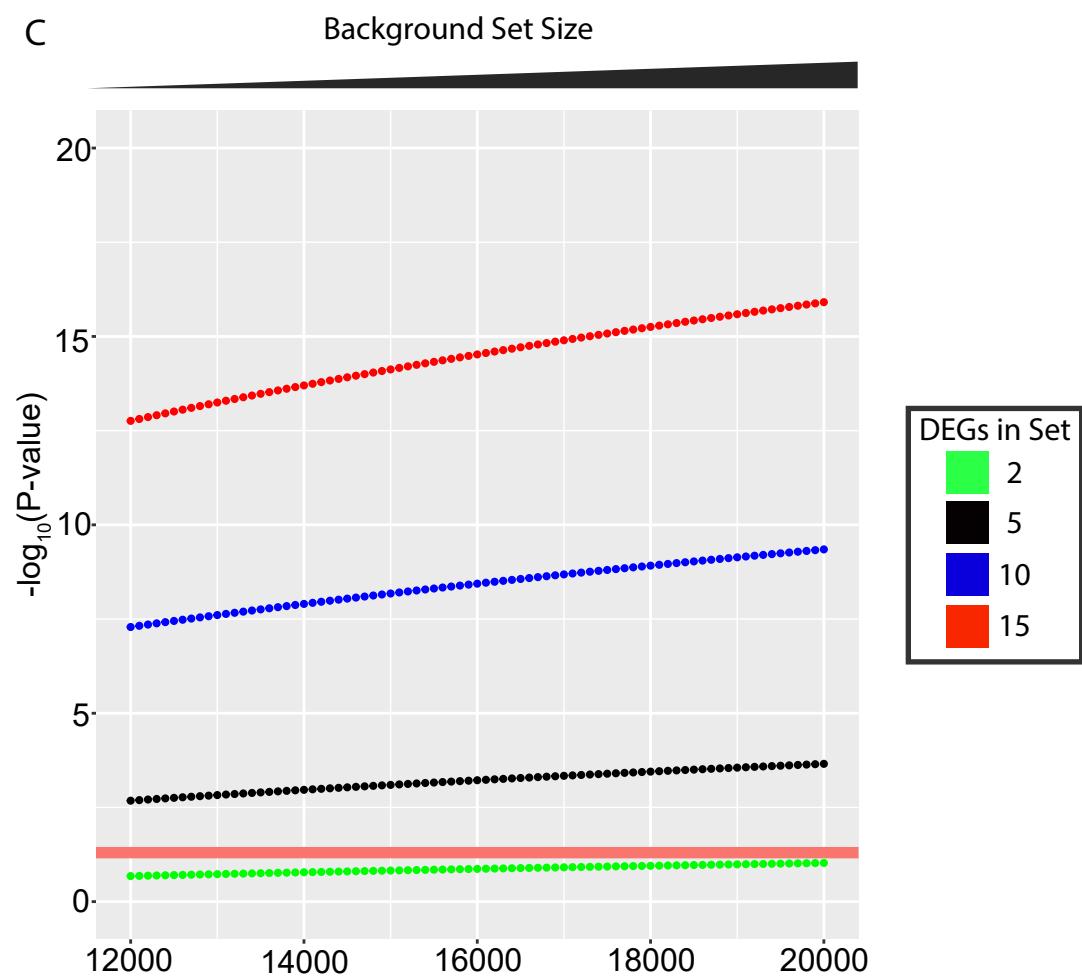
Input  
Values

DEGs  
Set (Pathway)  
Genes (Background)

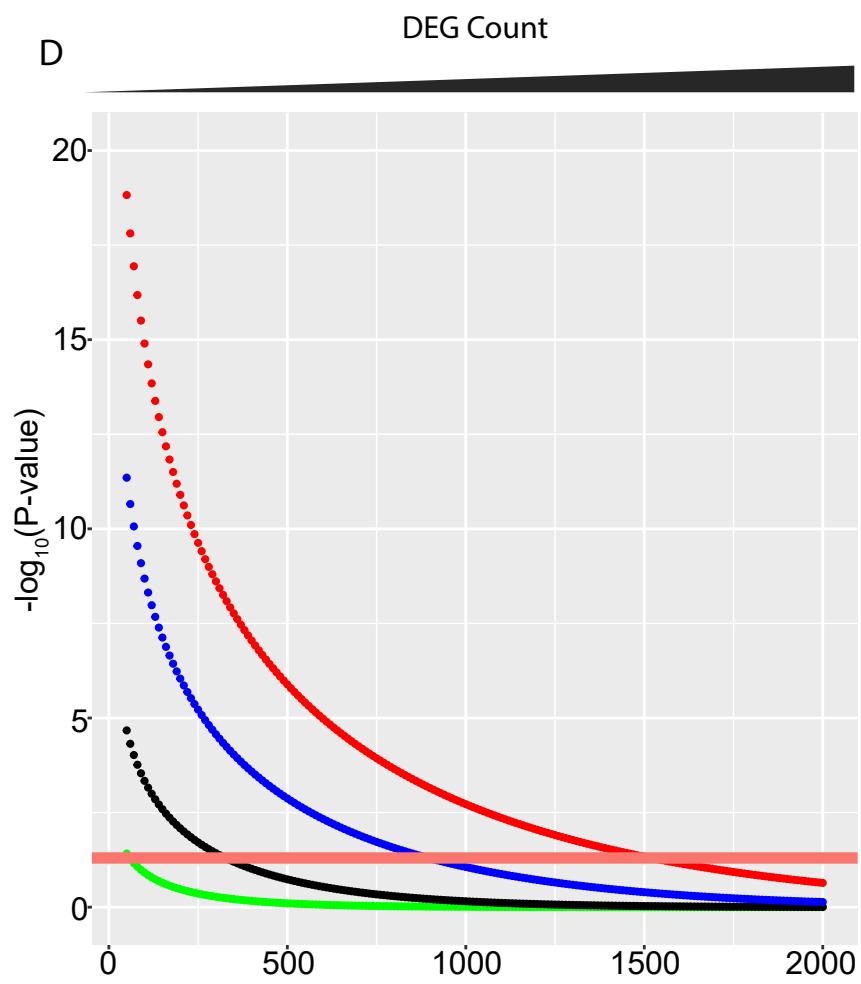
B



C



D



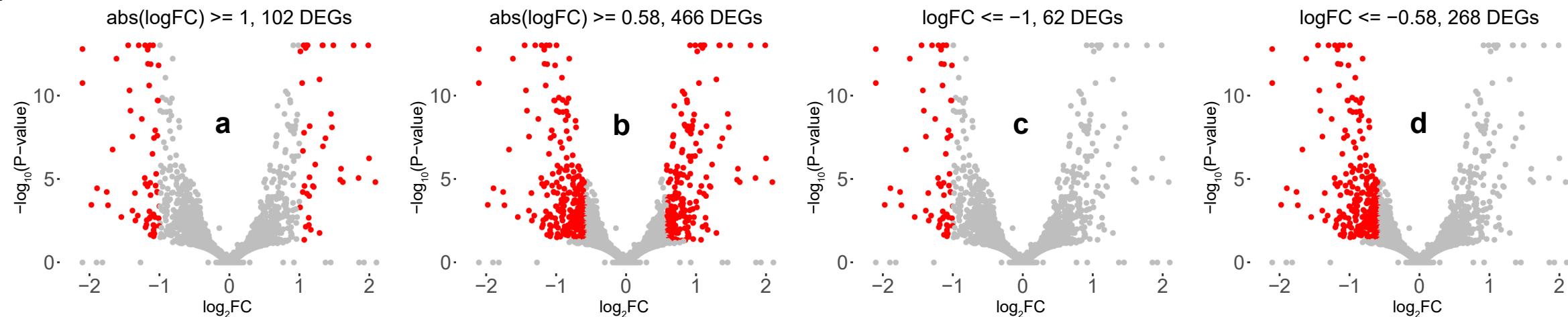
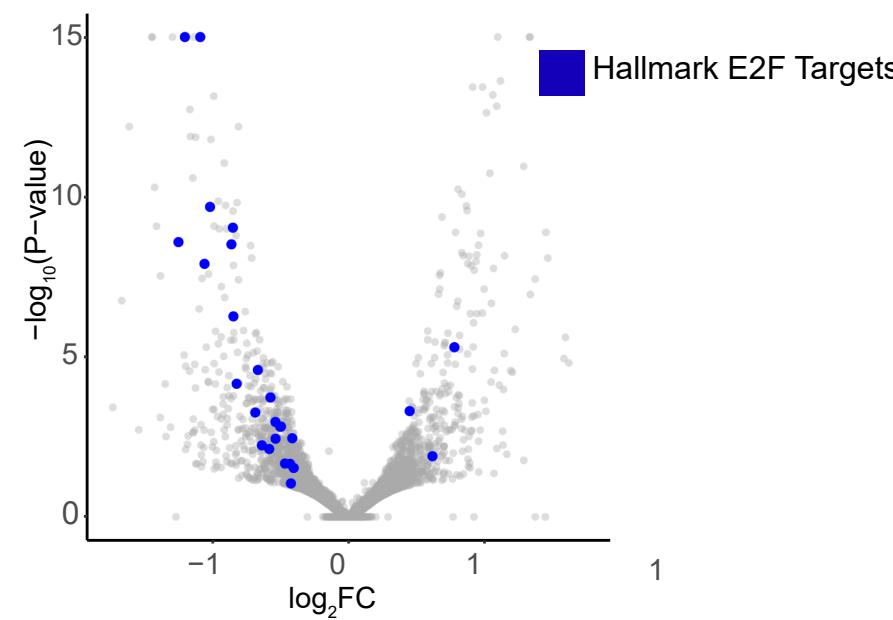
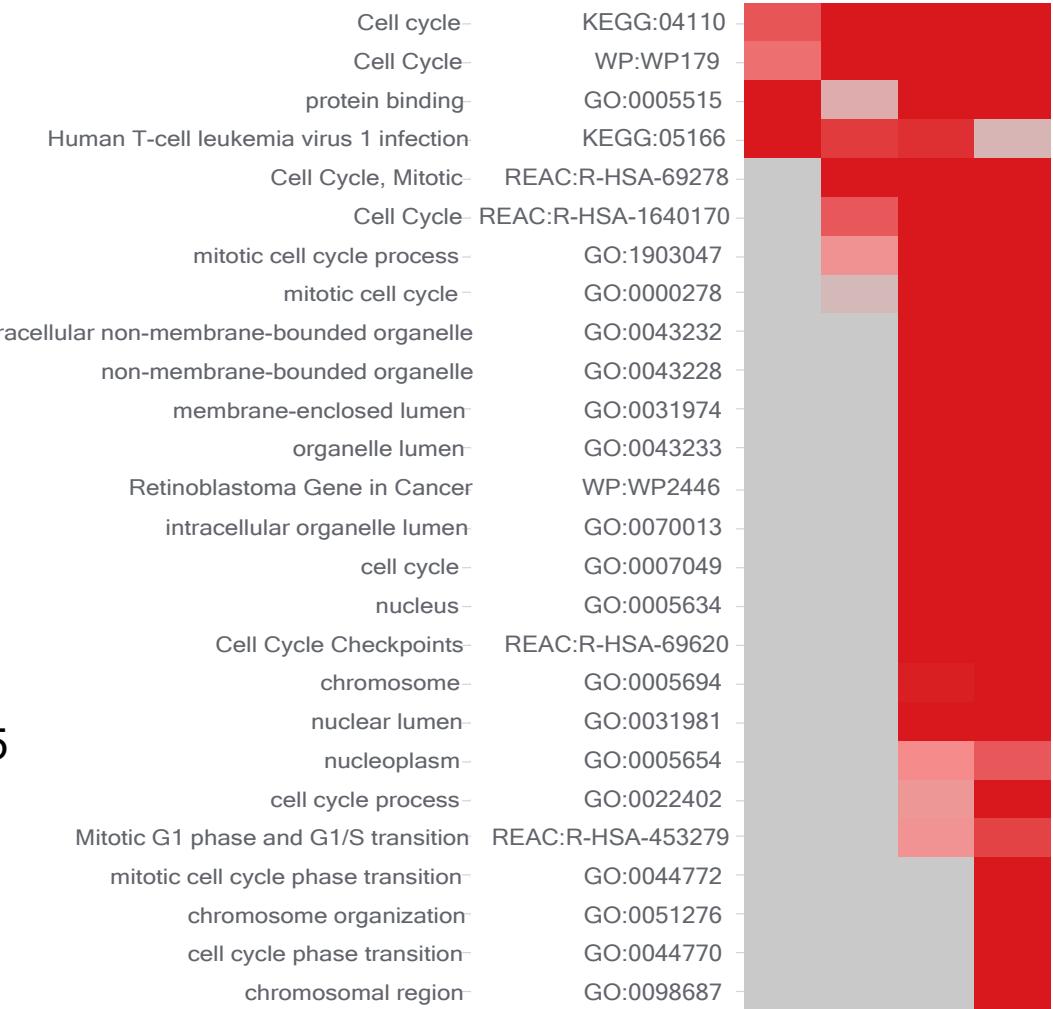
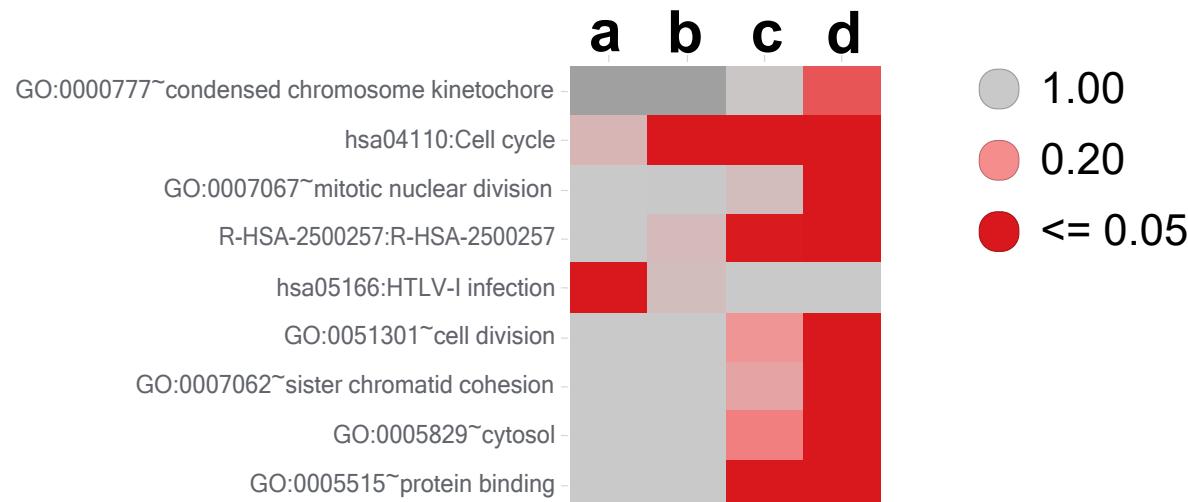
**Figure 5****A****B****C****D**

Figure 6

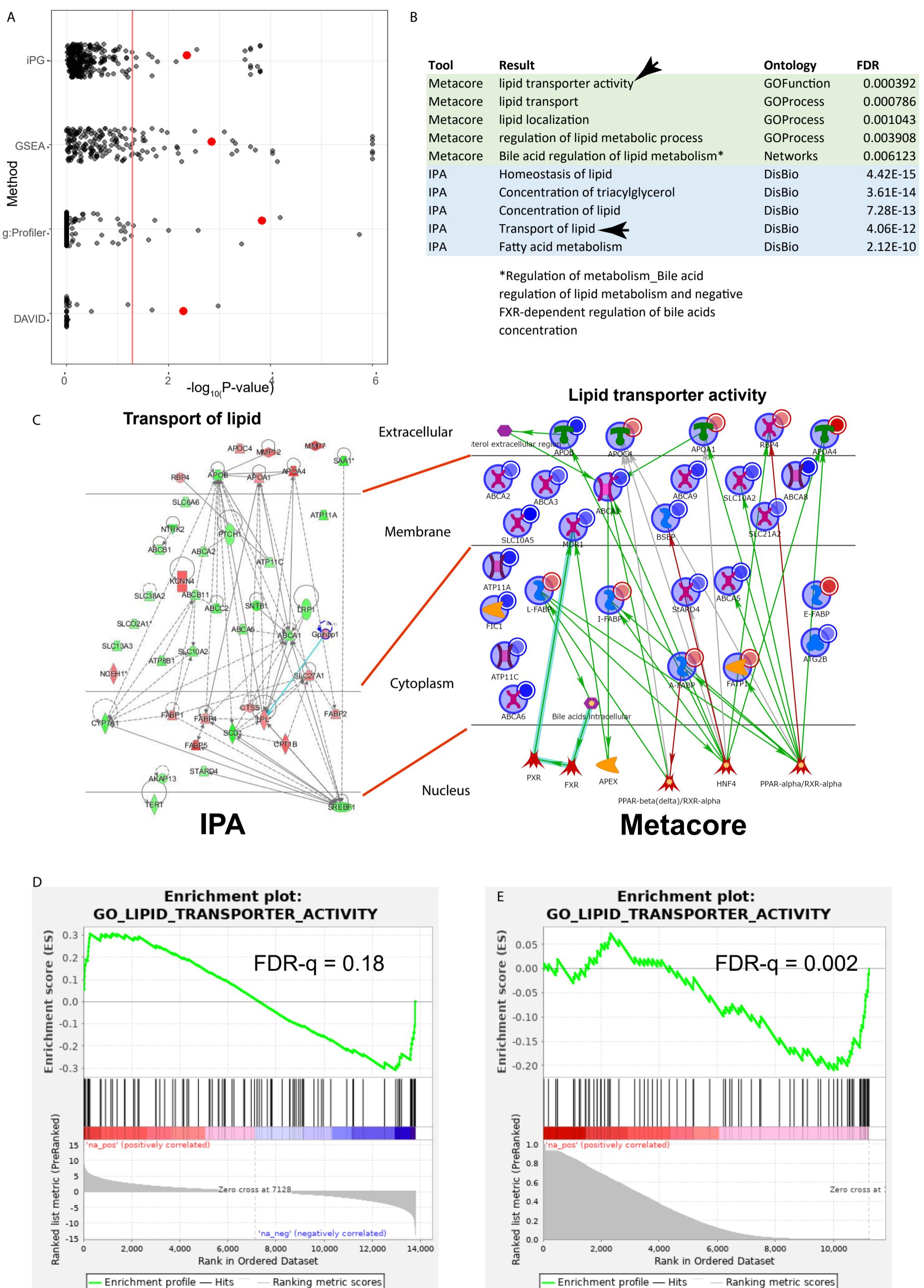
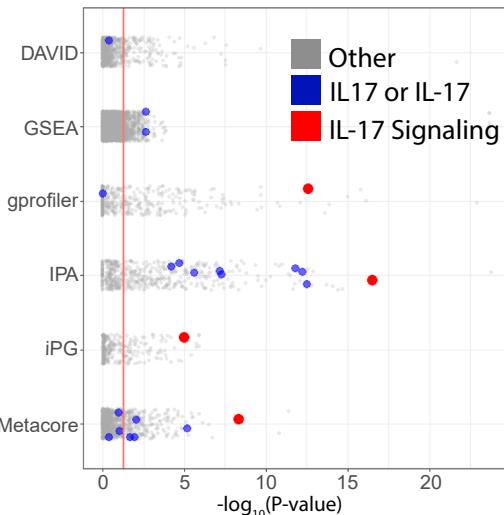


Figure 7

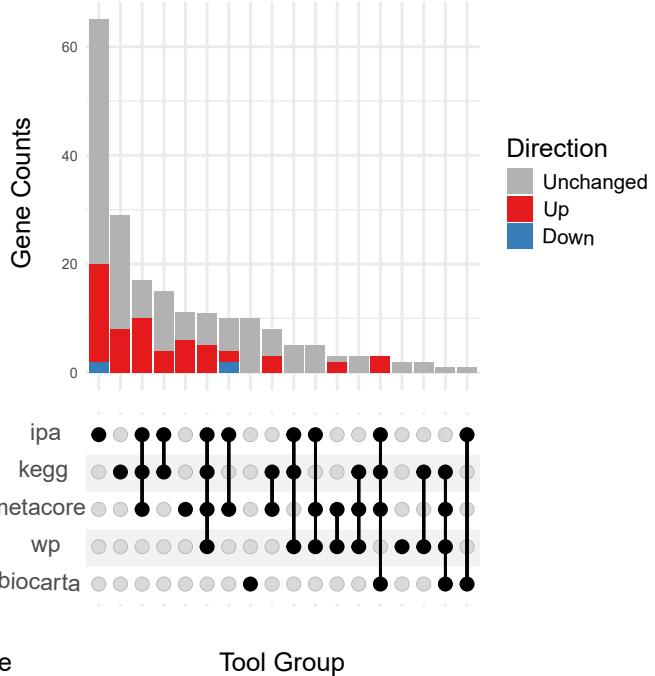
A

Tool	SetName	Ontology	Size	Rank in Ontology	P-value
Metacore	Immune response_IL-17 signaling pathways	PathwayMaps	39	6	5.06E-16
IPA	IL-17 Signaling	Canonical Pathways	132	4	1.26E-18
gProfiler	IL-17 signaling pathway	KEGG	81	4	7.09E-16
iPG	IL-17 signaling pathway	KEGG	81	6	1.92E-06
GSEA	N/A	N/A	N/A	N/A	N/A
DAVID	N/A	N/A	N/A	N/A	N/A

B



C



D

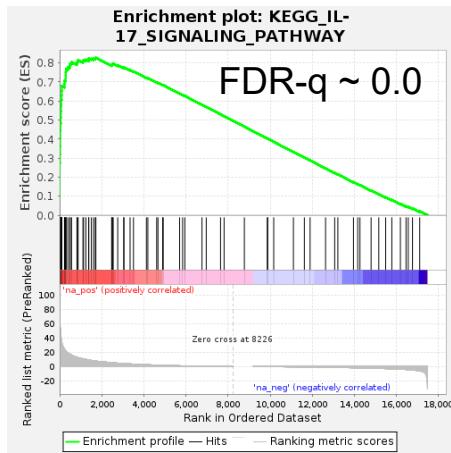
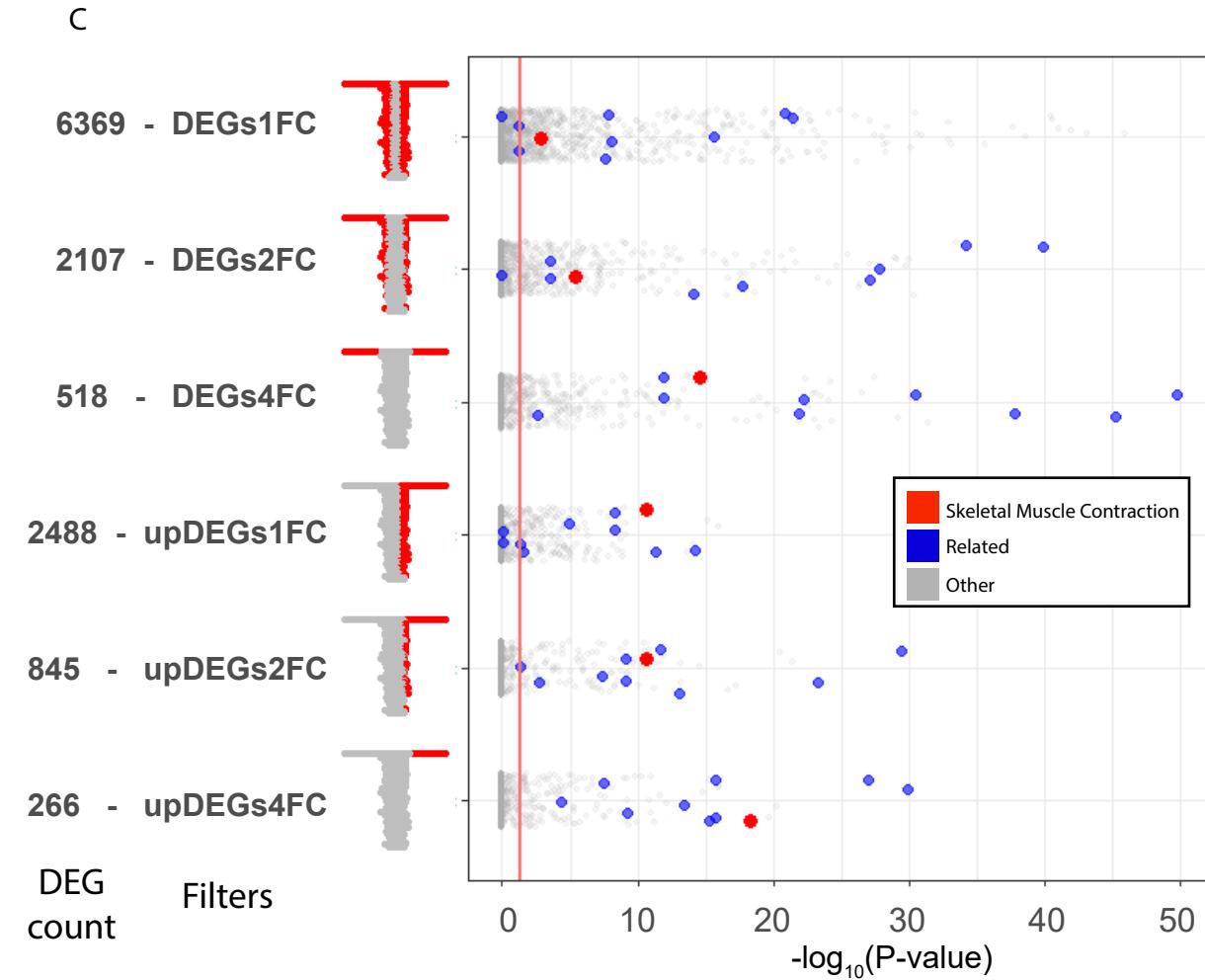
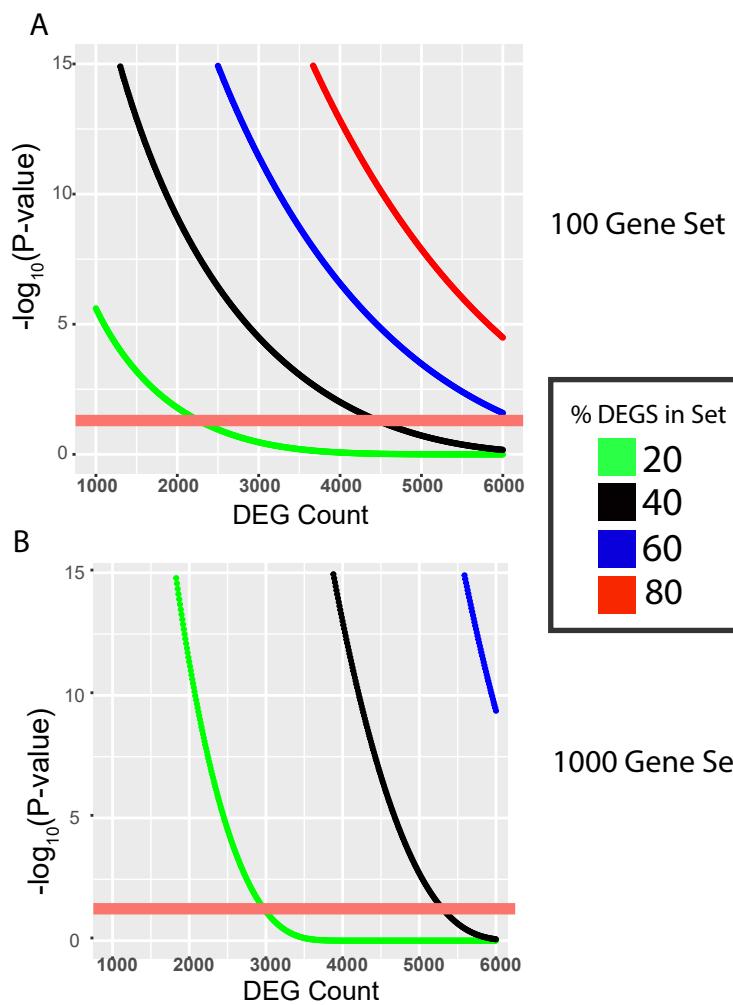


Figure 8



1

Select Experiment



2

Identify Biological  
Concept



3

Map Concept to Tool  
Ontologies



4

Visualize Concept Related  
Terms In Experimental Data