

Supplementary Figure legends

Table S1. Demographic and clinical characteristics of 212 HCC patients.

Figure S1. Protein expressions of HLA family members in liver. A-N: HLA- B, DMA, DMB, DOA, DOB, DPA1, DPB1, DQA1, DQB1, DRA, DRB1, E, and G respectively.

Figure S2. Bodymap of HLA family members in human. A-R: *HLA-A, B, C, DMA, DMB, DOA, DOB, DPA1, DPB1, DQA1, DQB1, DQB2, DRA, DRB1, DRB6, E, F, G* respectively.

Figure S3. Gene set enrichment analysis results of *HLA-C* gene. A-L: Results of biological processes; M-P: Results of KEGG pathways.

Figure S4. Gene set enrichment analysis results of *HLA-DPA1* gene. A-L: Results of biological processes; M-P: Results of KEGG pathways.

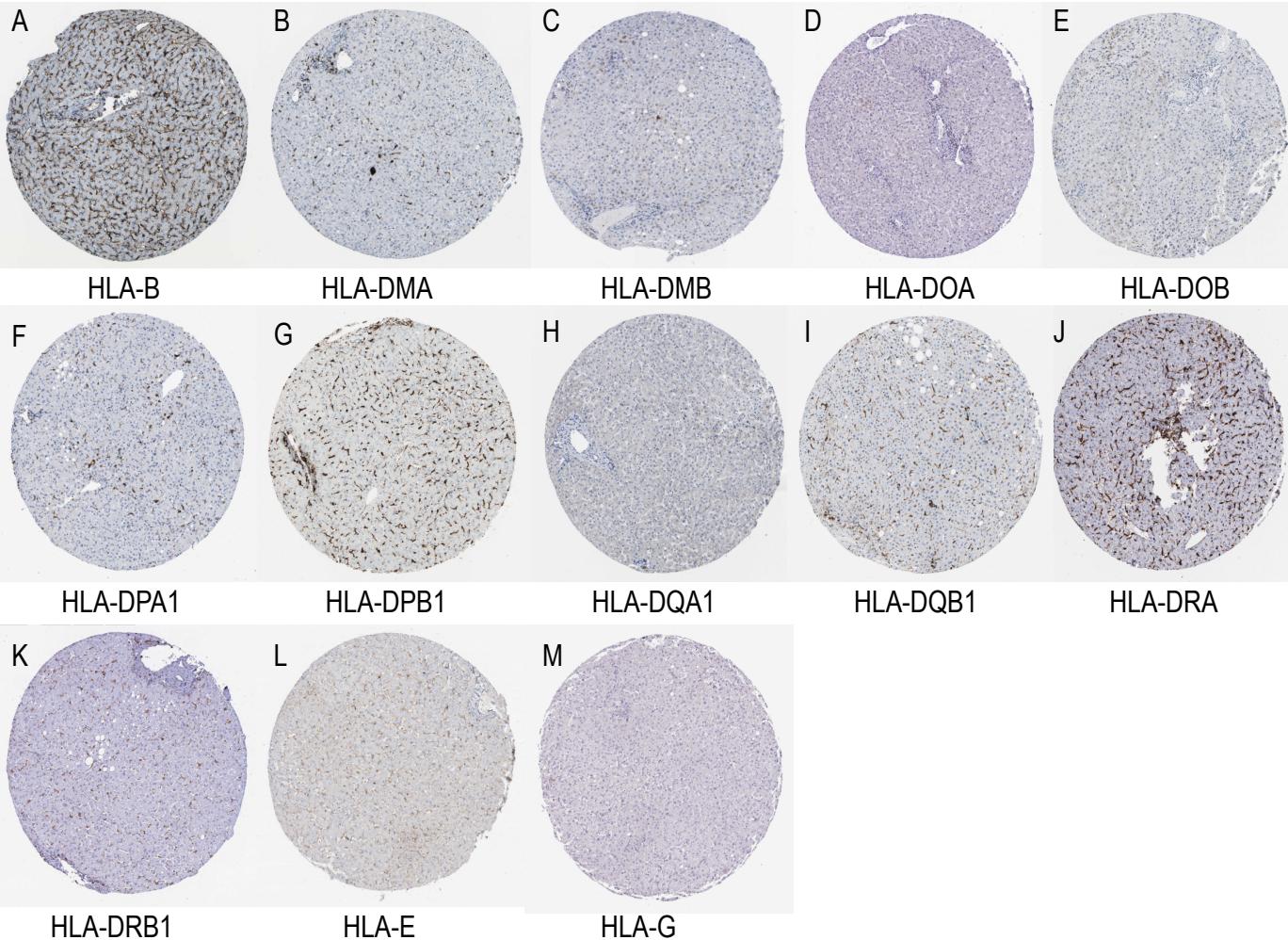
Figure S5. Gene set enrichment analysis results of *HLA-DQA1* gene. A-J: Results of biological processes; K-L: Results of KEGG pathways.

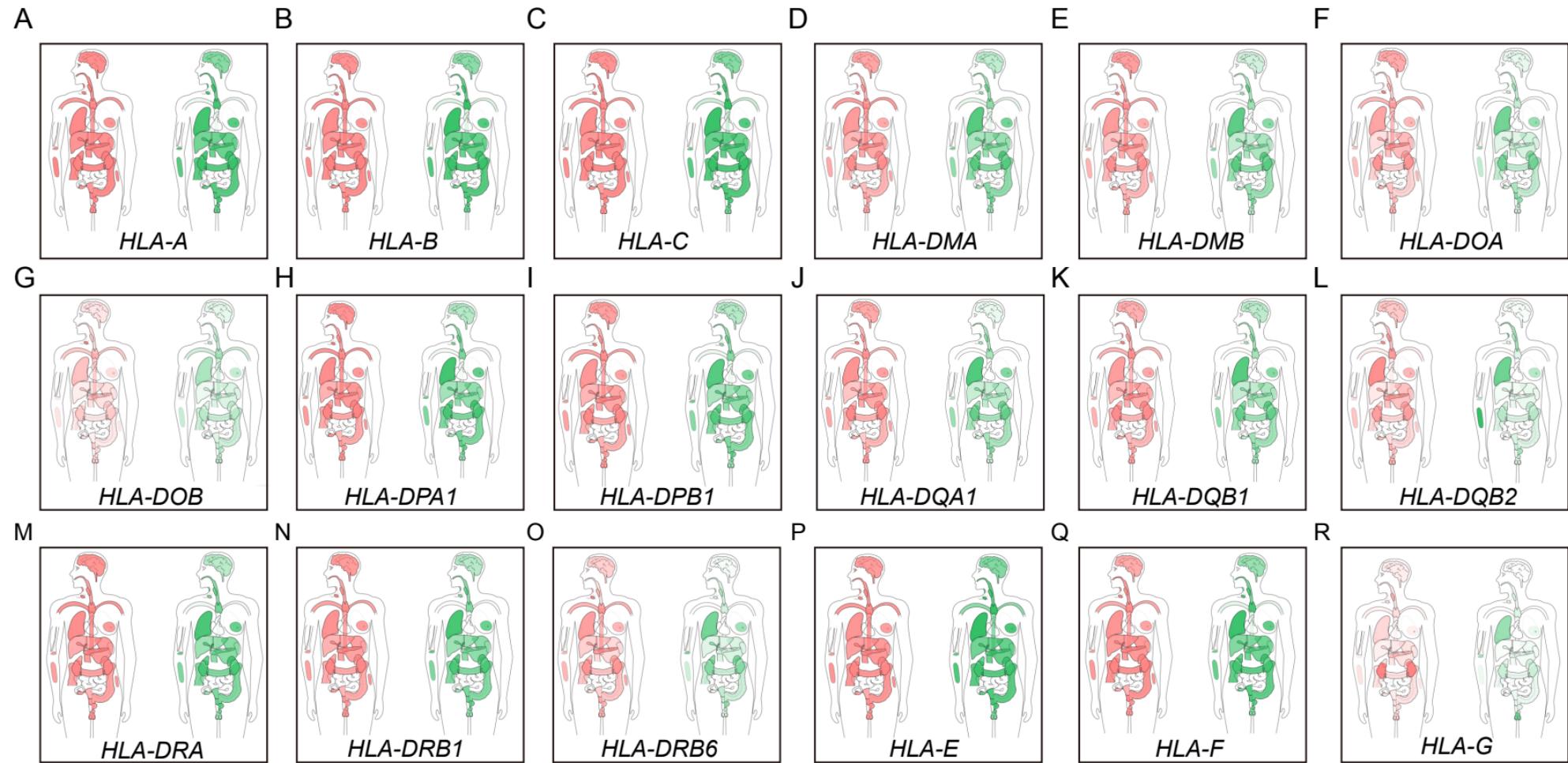
Figure S6. GO terms of HLA family genes enriched. A: Biological process, B: Cellular component, C: Molecular function.

Table S1. Demographic and clinical characteristics of 212 HCC patients

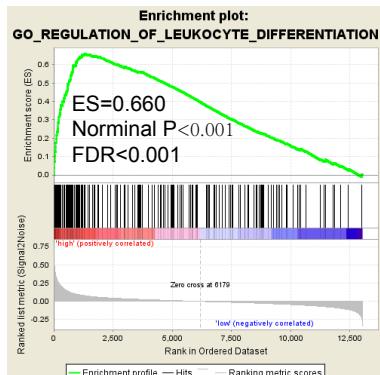
Yes	195	80	NA	Ref.		111	37.90	Ref.	
No	17	2	NA	0.231 (0.057-0.939)	0.041	5	NA	0.383(0.156-0.938)	0.036
Multinodular									
Yes	45	23	47.90	Ref.		26	28.70	Ref.	
No	167	59	NA	0.622 (0.384-1.008)	0.054	90	49.10	0.823(0.531-1.274)	0.382
AFP ℓ									
≤ 300 ng/ml	115	39	NA	Ref.		62	48.00	Ref.	
>300 ng/ml	94	43	NA	1.546 (1.002-2.385)	0.049	54	35.20	1.200(0.833-1.728)	0.328
BCLC stage									
0	20	2	NA	Ref.	<0.0001	6	NA	Ref.	<0.0001
A	143	48	NA	4.119(1.001-16.951)	0.050	74	51.60	2.050(0.892-4.711)	0.091
B	22	12	46.10	8.992(2.005-40.320)	0.004	15	26.90	4.019(1.550-10.421)	0.004
C	27	20	13.60	18.993(4.419-81.632)	<0.0001	21	8.90	6.163(2.477-15.333)	<0.0001

Note: §: One data were missing; ℓ : three data were missing.

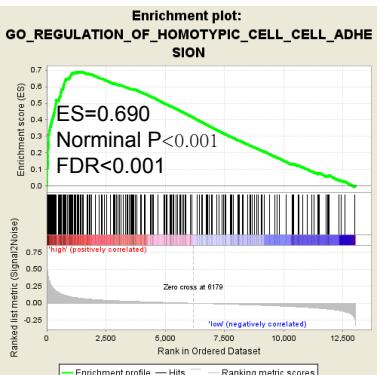




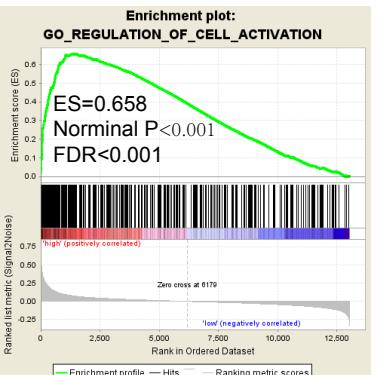
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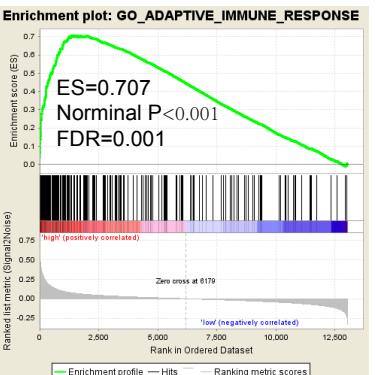
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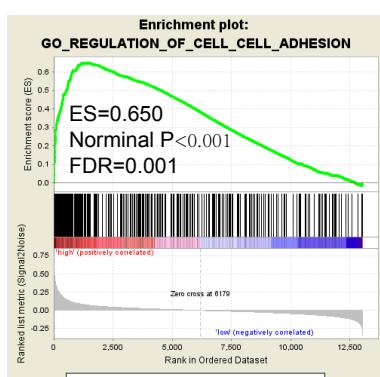
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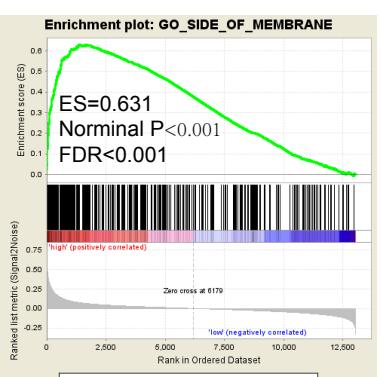
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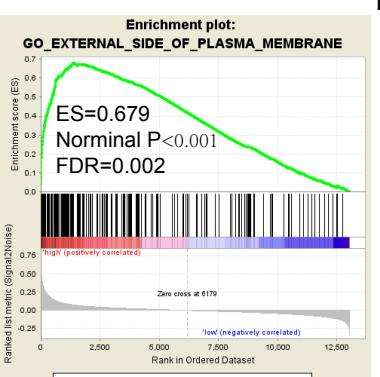
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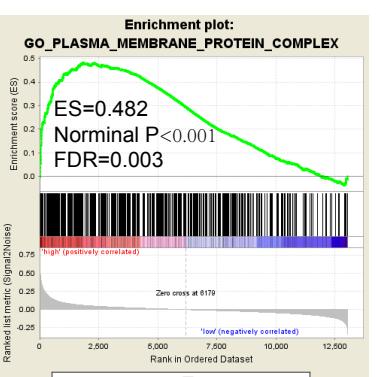
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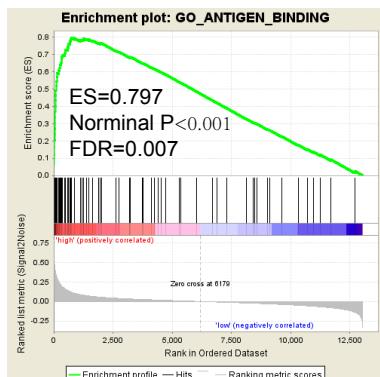
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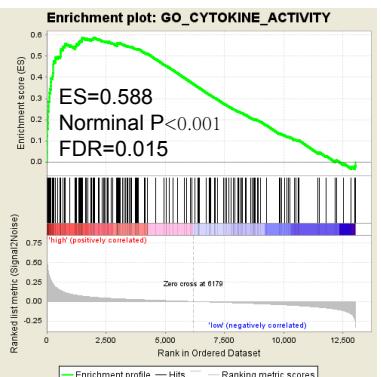
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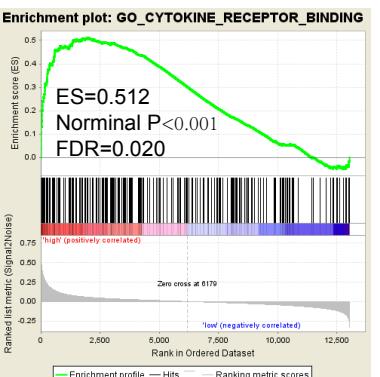
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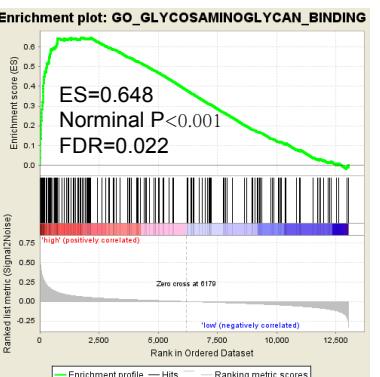
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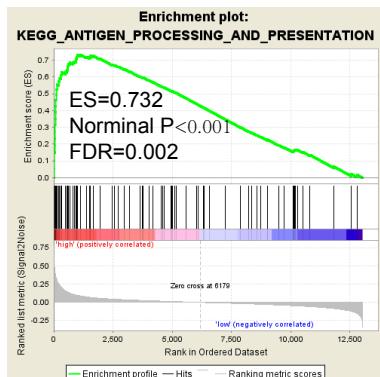
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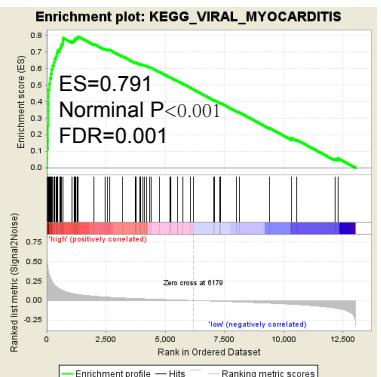
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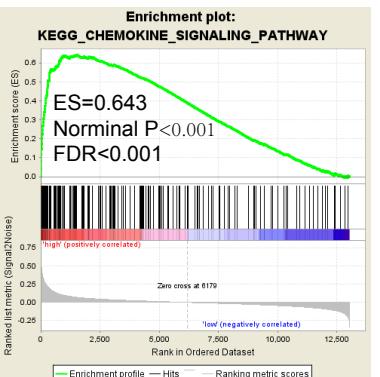
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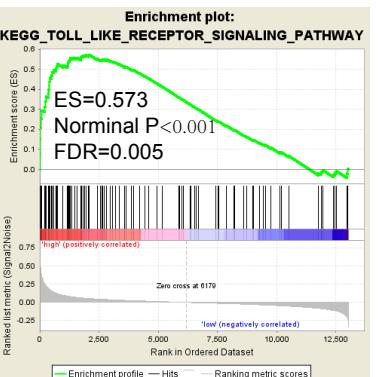
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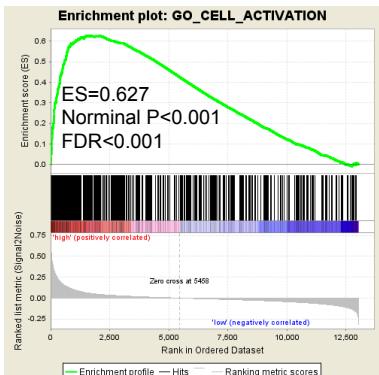
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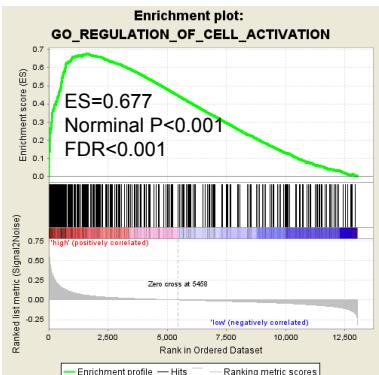
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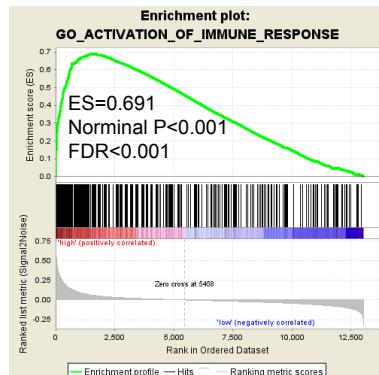
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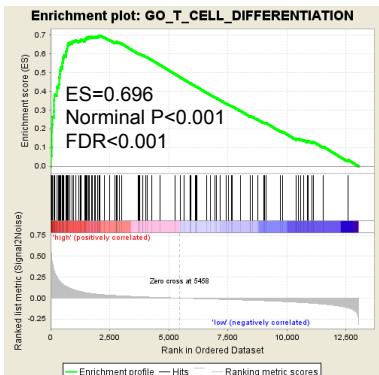
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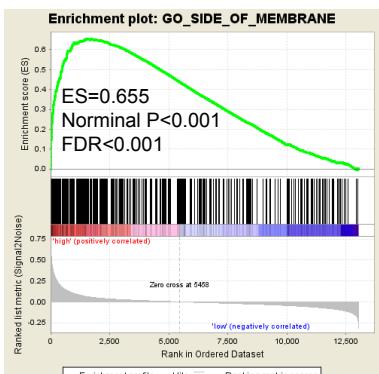
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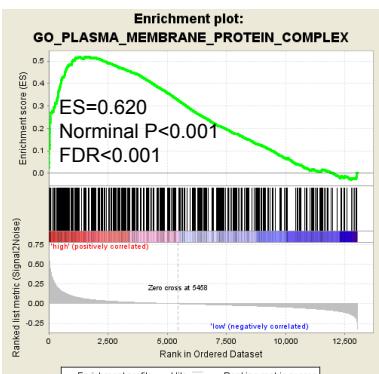
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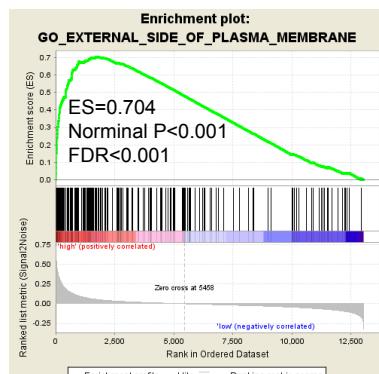
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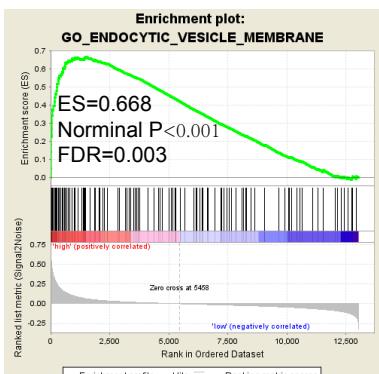
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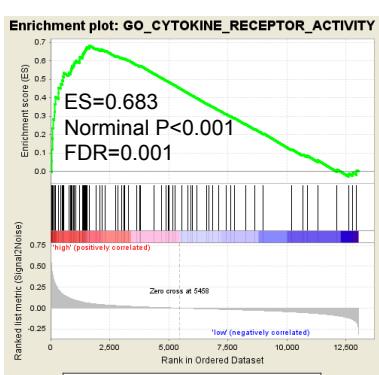
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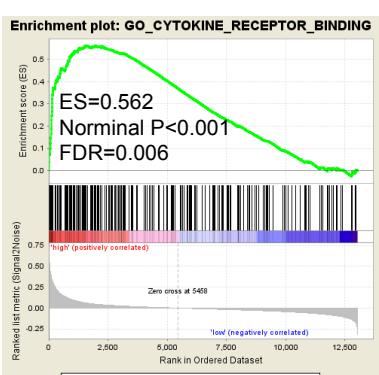
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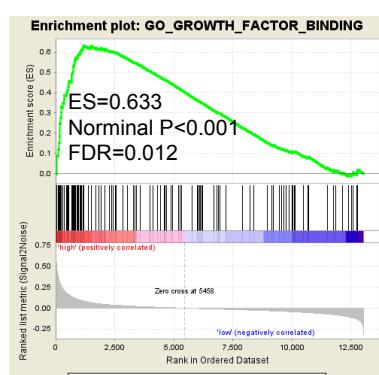
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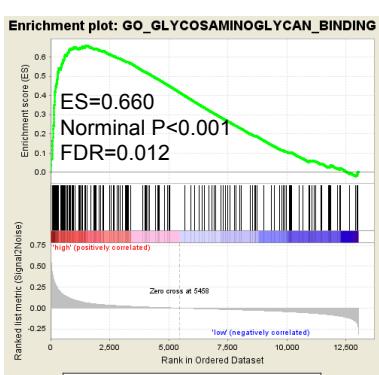
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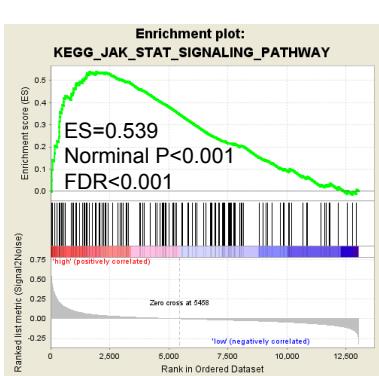
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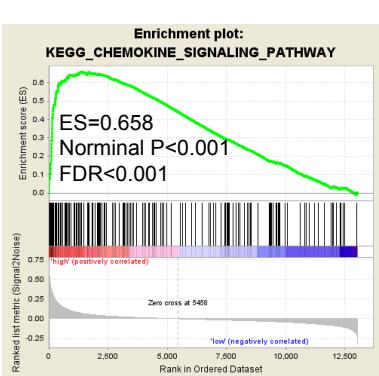
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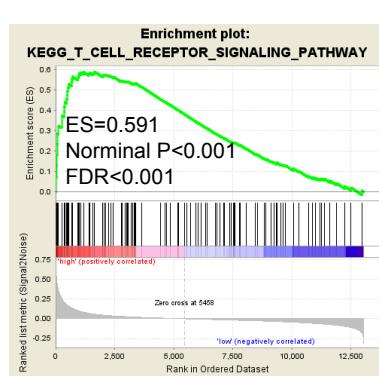
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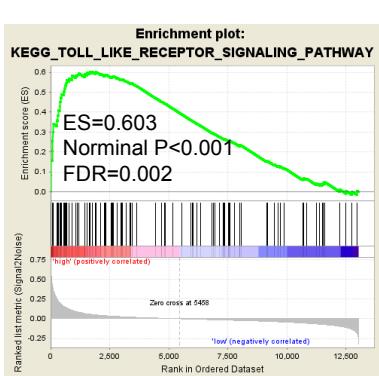
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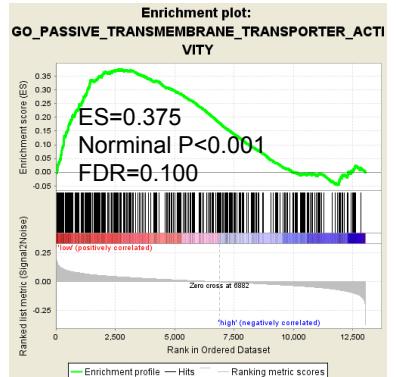
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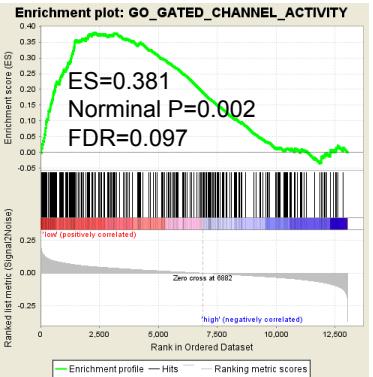
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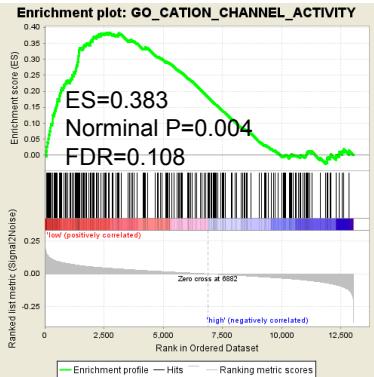
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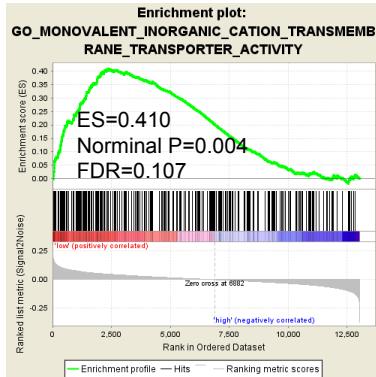
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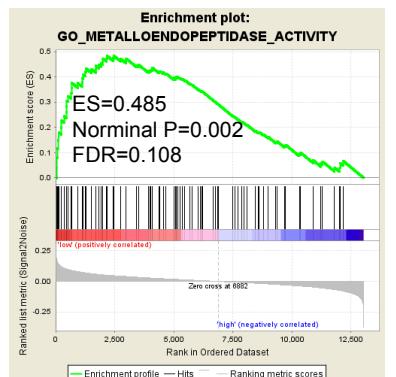
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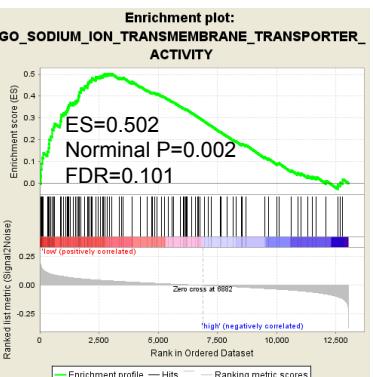
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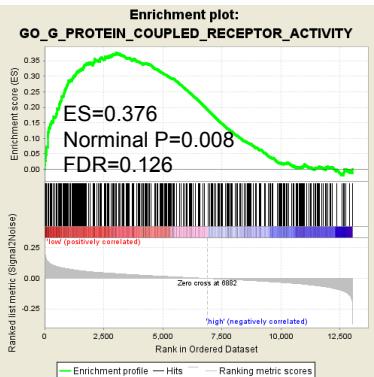
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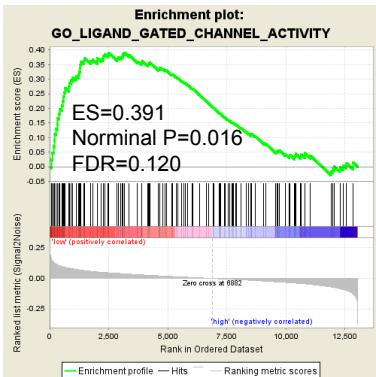
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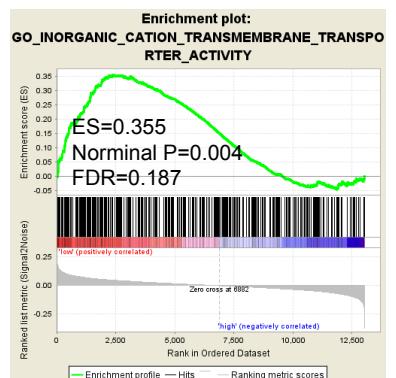
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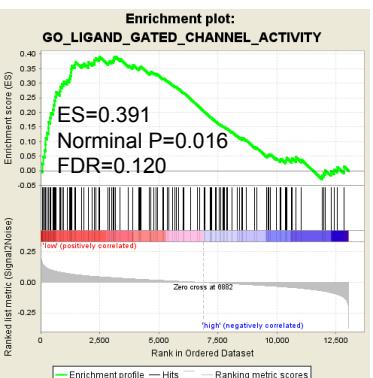
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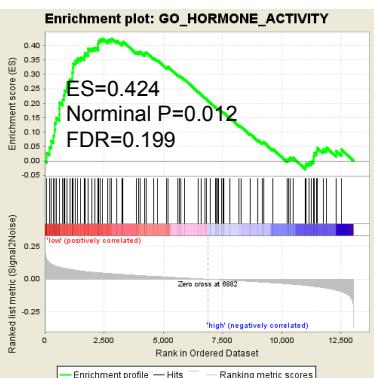
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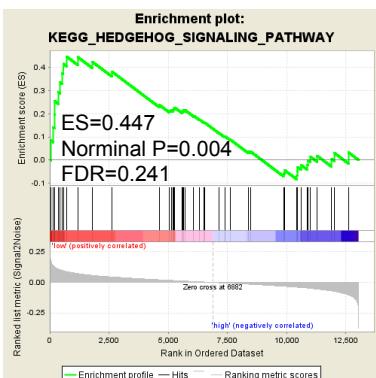
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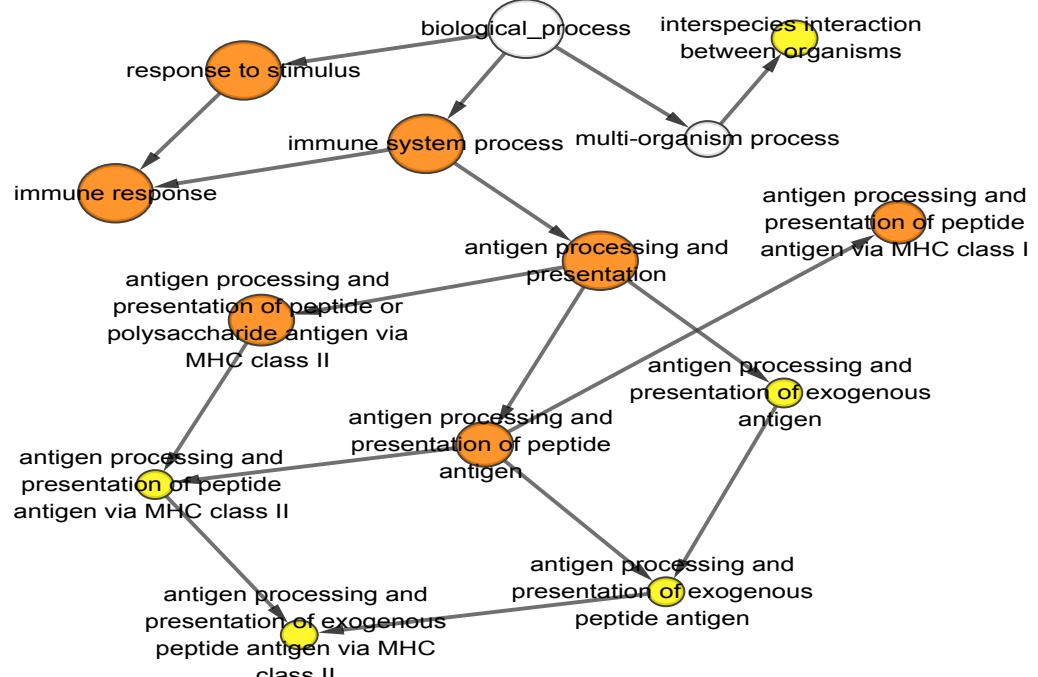
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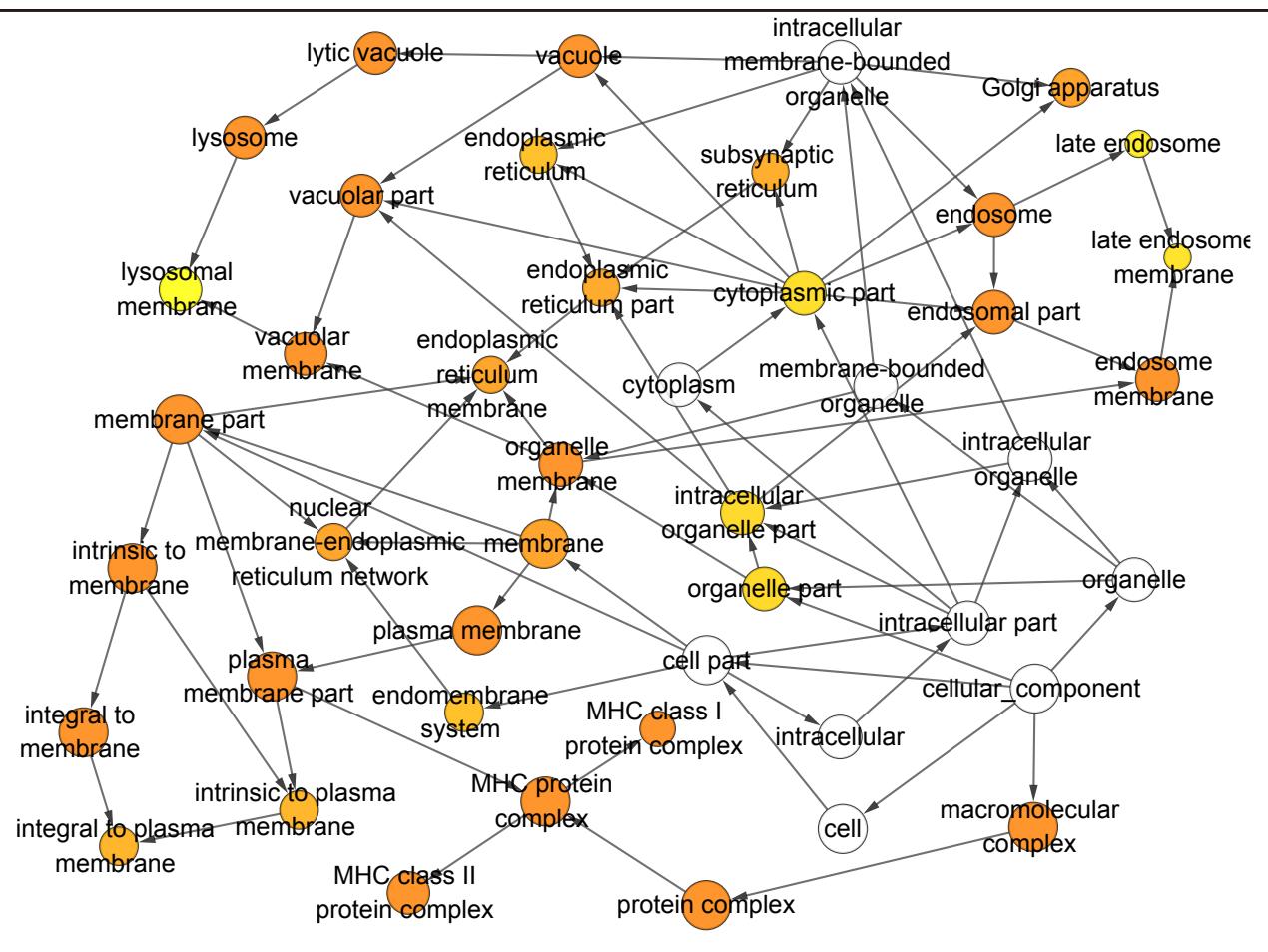
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