Table:	GSEA	Results	Summary

Dataset	deg_Mcoln1_wtlps_kolps_hsa_ranking.rnk_collapsed			
Phenotype	NoPhenotypeAvailable			
Upregulated in class	na_pos			
GeneSet	HSA05321			
Enrichment Score (ES)	0.52898735			
Normalized Enrichment Score (NES)	1.5776722			
Nominal p-value	0.017191976			
FDR q-value	0.046999987			
FWER p-Value	0.051			

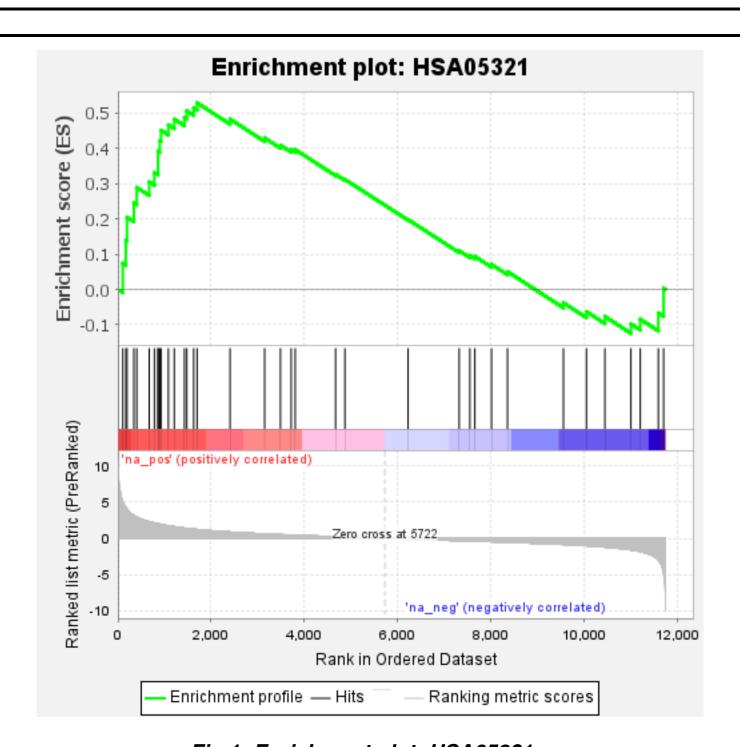


Fig 1: Enrichment plot: HSA05321
Profile of the Running ES Score & Positions of GeneSet Members on the Rank Ordered List

Table: GSEA details [plain text format]

	SYMBOL	TITLE	RANK IN GENE LIST	RANK METRIC SCORE	RUNNING ES	CORE ENRICHMENT
1	IL6	interleukin 6 [Source:HGNC Symbol;Acc:HGNC:6018]	105	4.956	0.0743	Yes
2	<u>IL10</u>	interleukin 10 [Source:HGNC Symbol;Acc:HGNC:5962]	171	4.207	0.1395	Yes
3	IL12RB2	interleukin 12 receptor subunit beta 2 [Source:HGNC Symbol;Acc:HGNC:5972]	196	4.022	0.2051	Yes
4	IL23A	interleukin 23 subunit alpha [Source:HGNC Symbol;Acc:HGNC:15488]	343	3.145	0.2455	Yes
5	STAT4	signal transducer and activator of transcription 4 [Source:HGNC Symbol;Acc:HGNC:11365]	405	2.924	0.2894	Yes
6	NFKB1	nuclear factor kappa B subunit 1 [Source:HGNC Symbol;Acc:HGNC:7794]	672	2.292	0.3052	Yes
7	GATA3	GATA binding protein 3 [Source:HGNC Symbol;Acc:HGNC:4172]	783	2.116	0.3314	Yes
8	<u>IL1B</u>	interleukin 1 beta [Source:HGNC Symbol;Acc:HGNC:5992]	861	1.997	0.3583	Yes
9	IL18RAP	interleukin 18 receptor accessory protein [Source:HGNC Symbol;Acc:HGNC:5989]	862	1.993	0.3919	Yes
10	<u>TNF</u>	tumor necrosis factor [Source:HGNC Symbol;Acc:HGNC:11892]	900	1.941	0.4213	Yes
11	<u>IL1A</u>	interleukin 1 alpha [Source:HGNC Symbol;Acc:HGNC:5991]	925	1.910	0.4514	Yes
12	RORA	RAR related orphan receptor A [Source:HGNC Symbol;Acc:HGNC:10258]	1083	1.704	0.4666	Yes
13	NOD2	nucleotide binding oligomerization domain containing 2 [Source:HGNC Symbol;Acc:HGNC:5331]	1210	1.598	0.4827	Yes
14	RELA	RELA proto-oncogene, NF-kB subunit [Source:HGNC Symbol;Acc:HGNC:9955]	1428	1.390	0.4875	Yes
15	TGFB2	transforming growth factor beta 2 [Source:HGNC Symbol;Acc:HGNC:11768]	1478	1.354	0.5061	Yes
16	IL5	interleukin 5 [Source:HGNC Symbol;Acc:HGNC:6016]	1626	1.257	0.5147	Yes
17	STAT3	signal transducer and activator of transcription 3 [Source:HGNC Symbol;Acc:HGNC:11364]	1698	1.212	0.5290	Yes
18	IL12A	interleukin 12A [Source:HGNC Symbol;Acc:HGNC:5969]	2406	0.850	0.4829	No
19	<u>IL18</u>	interleukin 18 [Source:HGNC Symbol;Acc:HGNC:5986]	3147	0.594	0.4296	No
20	SMAD2	SMAD family member 2 [Source:HGNC Symbol;Acc:HGNC:6768]	3487	0.496	0.4090	No
21	TGFB1	transforming growth factor beta 1 [Source:HGNC Symbol;Acc:HGNC:11766]	3716	0.437	0.3969	No
22	IFNGR2	interferon gamma receptor 2 [Source:HGNC Symbol;Acc:HGNC:5440]	3803	0.415	0.3965	No
23	TLR4	toll like receptor 4 [Source:HGNC Symbol;Acc:HGNC:11850]	4668	0.211	0.3263	No
24	TGFB3	transforming growth factor beta 3 [Source:HGNC Symbol;Acc:HGNC:11769]	4869	0.171	0.3121	No
25	STAT1	signal transducer and activator of transcription 1 [Source:HGNC Symbol;Acc:HGNC:11362]	6223	-0.098	0.1981	No
26	NFATC1	nuclear factor of activated T cells 1 [Source:HGNC Symbol;Acc:HGNC:7775]	7319	-0.316	0.1099	No
27	IL4	interleukin 4 [Source:HGNC Symbol;Acc:HGNC:6014]	7548	-0.361	0.0965	No
28	STAT6	signal transducer and activator of transcription 6 [Source:HGNC Symbol;Acc:HGNC:11368]	7655	-0.376	0.0938	No
29	IFNGR1	interferon gamma receptor 1 [Source:HGNC Symbol;Acc:HGNC:5439]	8012	-0.452	0.0710	No
30	MAF	MAF bZIP transcription factor [Source:HGNC Symbol;Acc:HGNC:6776]	8355	-0.527	0.0506	No
31	FOXP3	forkhead box P3 [Source:HGNC Symbol;Acc:HGNC:6106]	9555	-0.831	-0.0379	No
32	IL2RG	interleukin 2 receptor subunit gamma [Source:HGNC Symbol;Acc:HGNC:6010]	10048	-1.011	-0.0629	No
33	JUN	Jun proto-oncogene, AP-1 transcription factor subunit [Source:HGNC Symbol;Acc:HGNC:6204]	10444	-1.193	-0.0766	No
34	IL21R	interleukin 21 receptor [Source:HGNC Symbol;Acc:HGNC:6006]	11002	-1.579	-0.0976	No
35	SMAD3	SMAD family member 3 [Source:HGNC Symbol;Acc:HGNC:6769]	11202	-1.802	-0.0843	No
36	IL23R	interleukin 23 receptor [Source:HGNC Symbol;Acc:HGNC:19100]	11590	-3.023	-0.0666	No
37	IL12RB1	interleukin 12 receptor subunit beta 1 [Source:HGNC Symbol;Acc:HGNC:5971]	11703	-4.728	0.0033	No

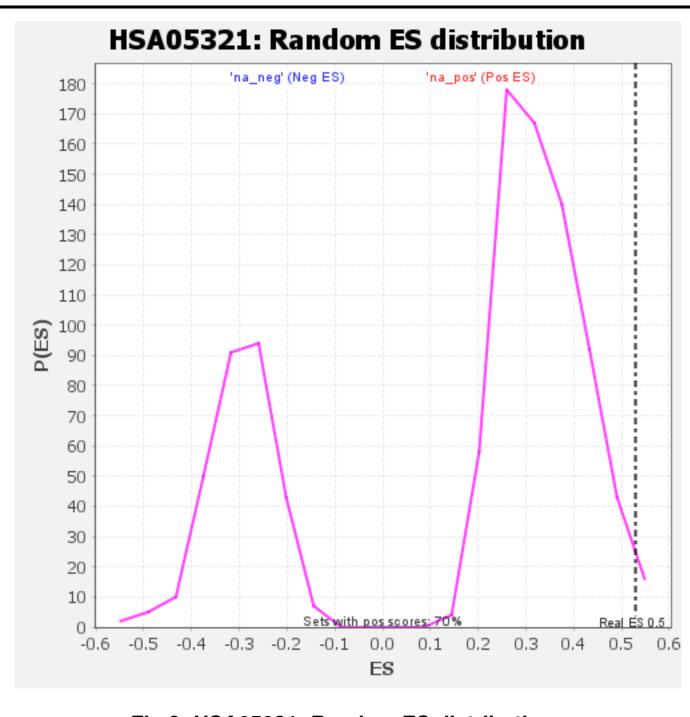


Fig 2: HSA05321: Random ES distribution Gene set null distribution of ES for HSA05321