

Table: GSEA Results Summary

Dataset	deg_Mcoln1_wt_lps_hRanking.rnk_collapsed
Phenotype	NoPhenotypeAvailable
Upregulated in class	na_neg
GeneSet	HSA05321
Enrichment Score (ES)	-0.5773711
Normalized Enrichment Score (NES)	-1.7067808
Nominal p-value	0.009259259
FDR q-value	0.013874874
FWER p-Value	0.014

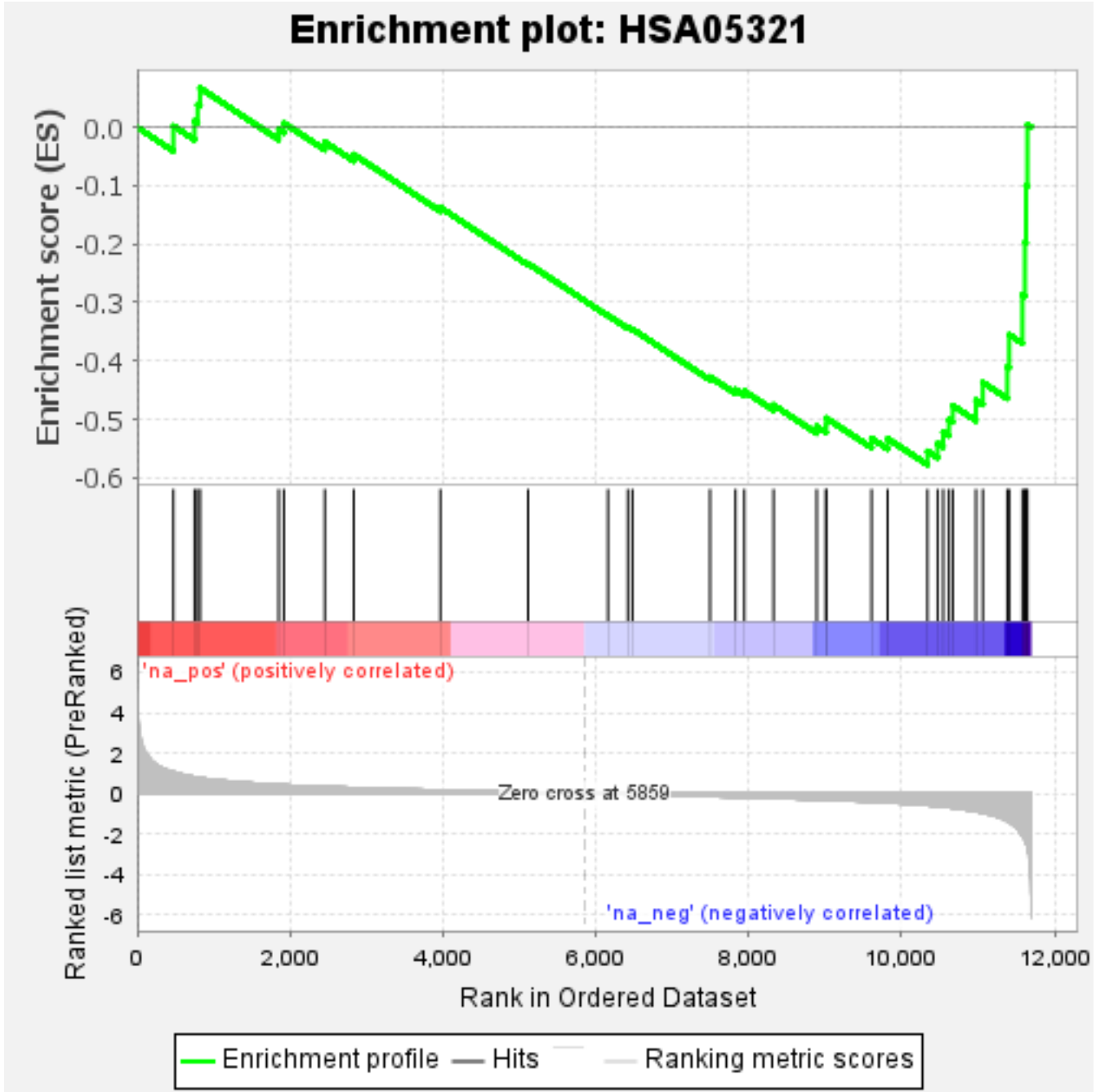


Fig 1: Enrichment plot: HSA05321  
Profile of the Running ES Score & Positions of GeneSet Members on the Rank Ordered List

Table: GSEA details [\[plain text format\]](#)

	SYMBOL	TITLE	RANK IN GENE LIST	RANK METRIC SCORE	RUNNING ES	CORE ENRICHMENT
1	<a href="#">IL12A</a>	interleukin 12A [Source:HGNC Symbol;Acc:HGNC:5969]	476	1.069	0.0020	No
2	<a href="#">RORA</a>	RAR related orphan receptor A [Source:HGNC Symbol;Acc:HGNC:10258]	753	0.811	0.0108	No
3	<a href="#">TNF</a>	tumor necrosis factor [Source:HGNC Symbol;Acc:HGNC:11892]	794	0.785	0.0389	No
4	<a href="#">FOXP3</a>	forkhead box P3 [Source:HGNC Symbol;Acc:HGNC:6106]	825	0.764	0.0669	No
5	<a href="#">IL12RB1</a>	interleukin 12 receptor subunit beta 1 [Source:HGNC Symbol;Acc:HGNC:5971]	1853	0.430	-0.0039	No
6	<a href="#">IL12RB2</a>	interleukin 12 receptor subunit beta 2 [Source:HGNC Symbol;Acc:HGNC:5972]	1922	0.417	0.0070	No
7	<a href="#">TGFB2</a>	transforming growth factor beta 2 [Source:HGNC Symbol;Acc:HGNC:11768]	2457	0.331	-0.0256	No
8	<a href="#">IL4</a>	interleukin 4 [Source:HGNC Symbol;Acc:HGNC:6014]	2835	0.280	-0.0467	No
9	<a href="#">IL6</a>	interleukin 6 [Source:HGNC Symbol;Acc:HGNC:6018]	3969	0.158	-0.1374	No
10	<a href="#">STAT4</a>	signal transducer and activator of transcription 4 [Source:HGNC Symbol;Acc:HGNC:11365]	5116	0.060	-0.2333	No
11	<a href="#">RELA</a>	RELA proto-oncogene, NF-kB subunit [Source:HGNC Symbol;Acc:HGNC:9955]	6161	-0.022	-0.3219	No
12	<a href="#">IL5</a>	interleukin 5 [Source:HGNC Symbol;Acc:HGNC:6016]	6421	-0.043	-0.3424	No
13	<a href="#">IFNGR2</a>	interferon gamma receptor 2 [Source:HGNC Symbol;Acc:HGNC:5440]	6481	-0.048	-0.3455	No
14	<a href="#">NOD2</a>	nucleotide binding oligomerization domain containing 2 [Source:HGNC Symbol;Acc:HGNC:5331]	7496	-0.134	-0.4271	No
15	<a href="#">STAT3</a>	signal transducer and activator of transcription 3 [Source:HGNC Symbol;Acc:HGNC:11364]	7829	-0.168	-0.4488	No
16	<a href="#">STAT6</a>	signal transducer and activator of transcription 6 [Source:HGNC Symbol;Acc:HGNC:11368]	7945	-0.181	-0.4514	No
17	<a href="#">NFATC1</a>	nuclear factor of activated T cells 1 [Source:HGNC Symbol;Acc:HGNC:7775]	8327	-0.222	-0.4752	No
18	<a href="#">IL1A</a>	interleukin 1 alpha [Source:HGNC Symbol;Acc:HGNC:5991]	8892	-0.292	-0.5118	No
19	<a href="#">TLR4</a>	toll like receptor 4 [Source:HGNC Symbol;Acc:HGNC:11850]	9015	-0.308	-0.5099	No
20	<a href="#">TGFB1</a>	transforming growth factor beta 1 [Source:HGNC Symbol;Acc:HGNC:11766]	9016	-0.308	-0.4976	No
21	<a href="#">SMAD2</a>	SMAD family member 2 [Source:HGNC Symbol;Acc:HGNC:6768]	9609	-0.398	-0.5324	No
22	<a href="#">STAT1</a>	signal transducer and activator of transcription 1 [Source:HGNC Symbol;Acc:HGNC:11362]	9819	-0.439	-0.5327	No
23	<a href="#">IFNGR1</a>	interferon gamma receptor 1 [Source:HGNC Symbol;Acc:HGNC:5439]	10341	-0.576	-0.5543	Yes
24	<a href="#">NFKB1</a>	nuclear factor kappa B subunit 1 [Source:HGNC Symbol;Acc:HGNC:7794]	10473	-0.616	-0.5409	Yes
25	<a href="#">IL2RG</a>	interleukin 2 receptor subunit gamma [Source:HGNC Symbol;Acc:HGNC:6010]	10546	-0.648	-0.5211	Yes
26	<a href="#">IL21R</a>	interleukin 21 receptor [Source:HGNC Symbol;Acc:HGNC:6006]	10622	-0.682	-0.5002	Yes
27	<a href="#">JUN</a>	Jun proto-oncogene, AP-1 transcription factor subunit [Source:HGNC Symbol;Acc:HGNC:6204]	10672	-0.704	-0.4762	Yes
28	<a href="#">SMAD3</a>	SMAD family member 3 [Source:HGNC Symbol;Acc:HGNC:6769]	10975	-0.875	-0.4671	Yes
29	<a href="#">IL18</a>	interleukin 18 [Source:HGNC Symbol;Acc:HGNC:5986]	11065	-0.951	-0.4366	Yes
30	<a href="#">TGFB3</a>	transforming growth factor beta 3 [Source:HGNC Symbol;Acc:HGNC:11769]	11385	-1.356	-0.4096	Yes
31	<a href="#">IL18RAP</a>	interleukin 18 receptor accessory protein [Source:HGNC Symbol;Acc:HGNC:5989]	11410	-1.413	-0.3551	Yes
32	<a href="#">IL23R</a>	interleukin 23 receptor [Source:HGNC Symbol;Acc:HGNC:19100]	11583	-2.083	-0.2864	Yes
33	<a href="#">IL10</a>	interleukin 10 [Source:HGNC Symbol;Acc:HGNC:5962]	11616	-2.306	-0.1967	Yes
34	<a href="#">IL1B</a>	interleukin 1 beta [Source:HGNC Symbol;Acc:HGNC:5992]	11631	-2.450	-0.0998	Yes
35	<a href="#">MAF</a>	MAF bZIP transcription factor [Source:HGNC Symbol;Acc:HGNC:6776]	11648	-2.637	0.0045	Yes

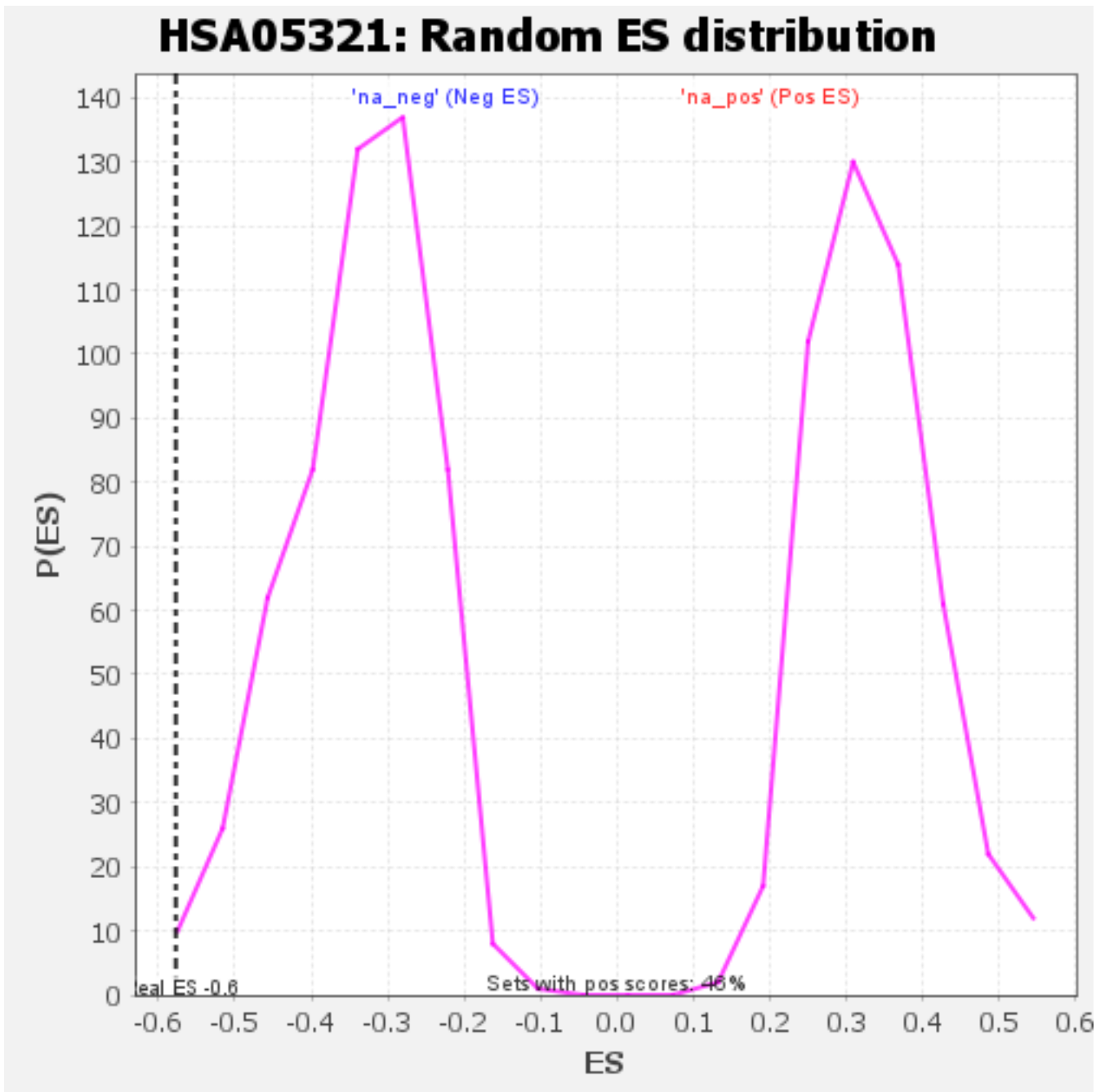


Fig 2: HSA05321: Random ES distribution  
Gene set null distribution of ES for HSA05321