

Figure 1 displays a multi-panel plot illustrating gene set enrichment analysis results. The x-axis represents the Gene List Index, ranging from 0 to 17824 (total number of genes in the list) and 53 (number of genes in the gene set).

The top panel shows the Enrichment Score (ES) curve (blue line). The curve starts at a baseline, rises to a peak at index 15872, and then falls. A vertical green dashed line marks the "Zero crossing at 9077", and a vertical blue dashed line marks the "Peak at 15872".

The middle panel shows a barcode representation of the gene set, with vertical lines indicating the presence of genes. The density of lines is higher in the region of the peak (around index 15872).

The bottom panel shows the distribution of genes in the "clus1" cluster (green area plot). The distribution is skewed towards the beginning of the gene list, with a high density of genes in the "clus1" cluster (left) and a low density in the "NON.clus1" cluster (right).

A density plot showing the distribution of ES values. The x-axis is labeled 'ES' and ranges from -0.6 to 0.6. The y-axis is labeled 'P(ES)' and ranges from 0 to 3. A red curve represents the 'Gene Set Null Density', which is bimodal with peaks at approximately -0.25 and 0.25. A vertical black line represents the 'Observed Gene Set ES value' at ES = -0.324. The area under the red curve to the left of this line is shaded light red. Text labels on the x-axis indicate 'Neg. ES "NON.clus1"' for the left peak and 'Pos. ES: "clus1"' for the right peak. At the bottom, a summary line reads: 'ES = -0.324 NES = -1.21 Nom. p-val= 0.217 FWER= 0.991 FDR= 1'.

clus1 **NON.clus1**

Class
 PLCG2
 RARB
 FHIT
 EGFR
 PIK3CA
 RAF1
 BRAF
 AKT3
 CCND1
 RRRA
 AKT2
 PIK3CB
 ARAF
 PIK3R2
 E2F2
 PIK3R3
 CDK6
 STK4
 FOXO3
 CDK4
 MAP2K2
 PDPK1
 PLCG1
 RB1
 PRKCB
 KRAS
 CASP9
 SOS2
 MAPK1
 MAPK3
 AKT1
 RKRAB
 PIK3CG
 SOS1
 ERBB2
 HRAS
 BAD
 TP53
 GRB2
 NRAS
 E2F3
 CDKN2A
 RASSF1
 EGF
 MAP2K1
 PRKCA
 PIK3R5
 PIK3CD
 RASSF3
 PIK3R1
 PRKCG
 TGFRA
 XGRC

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