

Figure 1: A multi-panel plot showing the relationship between the Gene List Index and various metrics. The top panel shows a blue line representing the "Number of genes in the set" (y-axis, 0 to 100) against the "Gene List Index" (x-axis, 0 to 18,113). The line starts at 100, decreases to a minimum of 45 at index 14,823, and then increases back to 100. A green vertical dotted line marks the "Zero crossing at 7260" and a blue vertical dotted line marks the "Peak at 14823". The middle panel shows a series of vertical black lines representing the "Number of genes in the list" (y-axis, 0 to 100) against the "Gene List Index". The bottom panel shows a green shaded area representing the "Number of genes in the set" (y-axis, 0 to 100) against the "Gene List Index". The area is labeled "clus2" on the left and "NON.clus2" on the right. The x-axis is labeled "Gene List Index" and "Number of genes: 18113 (in list), 45 (in gene set)".

A density plot showing the distribution of ES values for two gene sets. The x-axis is labeled 'ES' and ranges from -0.6 to 0.6. The y-axis is labeled 'P(ES)' and ranges from 0.0 to 3.0. A red curve represents the 'Gene Set Null Density', which is bimodal with peaks at approximately -0.25 and 0.3. A vertical black line at ES = -0.501 represents the 'Observed Gene Set ES value'. The area under the red curve to the left of this line is shaded light red. Text labels indicate 'Neg. ES "NON.clus2"' for the left side and 'Pos. ES: "clus2"' for the right side. Below the plot, summary statistics are provided: ES = -0.501, NES = -1.66, Nom. p-val = 0.0175, FWER = 0.529, and FDR = 0.234.

ES

ES = -0.501 NES = -1.66 Nom. p-val= 0.0175 FWER= 0.529 FDR= 0.234

Heatmap visualization showing gene expression profiles across various conditions, categorized into 'clus2' and 'NON.clus2' groups. The y-axis lists genes, and the x-axis lists conditions. The color scale ranges from -2 (blue) to 2 (red).

Genes (Y-axis):

- Class
- MAPK13
- HRAS
- SP1
- MAP2K3
- MAP2K7
- RIPK1
- MAP3K1
- NFKB1
- RELA
- TNFRSF1A
- DAXX
- MAP2K4
- IKKBK
- MAPK14
- EGFR
- MAP2K6
- RAF1
- PPP2CA
- TNF
- JUN
- MAPK3
- PRKCA
- NFKBIA
- MAP3K14
- PRKCE
- ETS2
- CHUK
- MAPK1
- PRKCD
- CEBPA
- PRKCQ
- MAP2K1
- BCL2
- PRKCG
- FOXO
- MAPK8
- EGF
- ETS1
- FAS
- PRKCH
- HOXA7
- TNFRSF3
- MAP3K5
- FASLG
- PRKCB

Conditions (X-axis):

- TCGA_4G_AAZ0_01
- TCGA_4G_AAZT_01
- TCGA_W5_AA2I_01
- TCGA_W5_AA2Q_01
- TCGA_W5_AA2T_01
- TCGA_W5_AA2W_01
- TCGA_W5_AA2Z_01
- TCGA_W5_AA34_01
- TCGA_W5_AA36_01
- TCGA_W5_AA38_01
- TCGA_ZD_A8I3_01
- TCGA_ZH_A8Y1_01
- TCGA_ZH_A8Y2_01
- TCGA_ZH_A8Y5_01
- TCGA_ZH_A8Y6_01
- TCGA_3X_AAV9_01
- TCGA_3X_AAVA_01
- TCGA_3X_AAVB_01
- TCGA_3X_AAVC_01
- TCGA_3X_AAVE_01
- TCGA_W5_AA2G_01
- TCGA_W5_AA2H_01
- TCGA_W5_AA2O_01
- TCGA_W5_AA2R_01
- TCGA_W5_AA2U_01
- TCGA_W5_AA2X_01
- TCGA_W5_AA30_01
- TCGA_W5_AA31_01
- TCGA_W5_AA33_01
- TCGA_W5_AA39_01
- TCGA_W6_AA0S_01
- TCGA_WD_A7RX_01
- TCGA_YR_A9SA_01
- TCGA_ZH_A8Y4_01
- TCGA_ZH_A8Y8_01
- TCGA_ZU_A8S4_01