

Figure 1 displays the results of a gene set enrichment analysis (GSEA) for the gene set *CLUS1*. The plot shows the enrichment score (ES) across the gene list index (0 to 17824). The ES curve (blue line) starts at 0, rises to a peak of approximately 0.15 at index 14754, and then falls to a minimum of approximately -0.15 at index 8790. A horizontal dashed line at ES = 0 indicates the zero crossing. The middle panel shows the distribution of genes in the gene set (59 genes) as vertical black bars. The bottom panel shows the distribution of genes in the gene list (17824 genes) as a green area plot. The area plot shows a sharp peak at index 8790, labeled "Zero crossing at 8790", and a sharp peak at index 14754, labeled "Peak at 14754". The area plot is labeled "clus1" on the left and "NON.clus1" on the right.

A density plot showing the distribution of ES values. The x-axis is labeled 'ES' and ranges from -0.5 to 0.5. 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 around -0.3 and 0.3. A vertical black line represents the 'Observed Gene Set ES value' at ES = -0.505. The area under the red curve to the left of this line is shaded in light blue. Text labels on the x-axis indicate 'Neg. ES "NON.clus1"' for the left side and 'Pos. ES: "clus1"' for the right side. At the bottom, a summary line reads: 'ES = -0.505 NES = -1.39 Nom. p-val= 0.068 FWER= 0.997 FDR= 1'.

Heatmap visualization showing gene expression levels across 100 samples, grouped into two clusters: **clus1** (red header) and **NON.clus1** (blue header). The y-axis lists 50 genes. The color scale ranges from -2 (blue) to 2 (red).

Genes (Y-axis):

- Class
- CYP11A2
- ACSM1
- UGT2B7
- NAT1
- GLYAT1
- MAT2B
- MGST2
- GSTO2
- UGT1A6
- GSTA3
- GCLC
- GSTA2
- GSTA1
- SULT1A3
- UGT1A9
- CNDP2
- MGST3
- NTR
- ACSM2B
- GGT7
- SULT1C2
- AHCY
- UGT2B10
- GSTP1
- GSS
- MAT2A
- BPNT1
- GSTM6
- GSTO1
- MGST1
- GCLM
- SULT1B1
- TPMT
- UGP2
- GGT5
- SLC35D1
- SULT1A1
- GGCT
- NAT2
- SULT4A1
- SULT1A2
- PAPSS1
- PAPSS2
- UGDH
- GSTA4
- NNMT
- SULT1C4
- GSTM1
- COMT
- SULT2B1
- MAT1A
- GGT1
- UGT2B11
- OPLAH
- GSTM5
- SULT1E1
- UGT2B28
- UGT2A1
- UGT2B4

Cluster Headers:

- clus1** (Red header)
- NON.clus1** (Blue header)

Color Scale:

- 2 (Blue)
- 1
- 0 (White)
- 1
- 2 (Red)