

GeDiPNet Cluster 253 -- Enriched Pathways

Pathway enrichment: KEGG + Reactome, upper-tail hypergeometric test, Benjamini-Hochberg FDR-corrected. Fold enrichment = (overlap / cluster gene count) / (pathway gene count / universe size). Top 15 pathways per cluster by q-value. See scripts/build\_cluster\_enrichment.php on gedipnet.bicnirrh.res.in. Data as of: 2026-10-08 03:30:07. · Rows: 11 · Generated: 2026-10-07 23:52:13

| Pathway                          | Source   | Overlap Genes | Overlap Gene Names | Pathway Gene Count | Cluster Gene Count | Fold Enrichment | P-value  | FDR Q-value |
|----------------------------------|----------|---------------|--------------------|--------------------|--------------------|-----------------|----------|-------------|
| Molybdenum cofactor biosynthesis | Reactome | 1             | GPHN               | 6                  | 8                  | 250.21          | 3.991e-3 | 3.823e-2    |
| Spliceosome                      | KEGG     | 2             | DHX15, DHX16       | 162                | 8                  | 18.53           | 4.800e-3 | 4.331e-2    |
| mRNA Splicing - Major Pathway    | Reactome | 2             | DHX15, DHX16       | 183                | 8                  | 16.41           | 6.087e-3 | 5.095e-2    |
| VxPx cargo-targeting to cilium   | Reactome | 1             | PKD1               | 21                 | 8                  | 71.49           | 1.391e-2 | 8.546e-2    |
| Folate biosynthesis              | KEGG     | 1             | GPHN               | 28                 | 8                  | 53.62           | 1.850e-2 | 1.016e-1    |
| GABAergic synapse                | KEGG     | 1             | GPHN               | 89                 | 8                  | 16.87           | 5.779e-2 | 1.881e-1    |
| Biosynthesis of cofactors        | KEGG     | 1             | GPHN               | 154                | 8                  | 9.75            | 9.812e-2 | 2.485e-1    |
| Hippo signaling pathway          | KEGG     | 1             | PALS1              | 157                | 8                  | 9.56            | 9.995e-2 | 2.512e-1    |
| Tight junction                   | KEGG     | 1             | PALS1              | 170                | 8                  | 8.83            | 1.078e-1 | 2.616e-1    |
| Human papillomavirus infection   | KEGG     | 1             | PALS1              | 333                | 8                  | 4.51            | 2.015e-1 | 3.683e-1    |
| Metabolic pathways               | KEGG     | 1             | GPHN               | 1563               | 8                  | 0.96            | 6.723e-1 | 7.862e-1    |