

GeDiPNet Cluster 404 -- Enriched GO Terms (Biological Process)

GO term enrichment: Biological Process terms (gene2go, human/tax\_id=9606 only), upper-tail hypergeometric test, fold enrichment = (overlap / cluster gene count) / (term gene count / universe size), Benjamini-Hochberg FDR-corrected. Top 15 terms per cluster by q-value. See scripts/build\_cluster\_go\_enrichment.php on gedipnet.bicnirrh.res.in. Data as of: 2026-10-08 03:23:04. · Rows: 15 · Generated: 2026-10-07 21:59:33

| GO Term                                                   | GO ID      | Overlap Genes | Overlap Gene Names                        | Term Gene Count | Cluster Gene Count | Fold Enrichment | P-value   | FDR Q-value |
|-----------------------------------------------------------|------------|---------------|-------------------------------------------|-----------------|--------------------|-----------------|-----------|-------------|
| fatty acid beta-oxidation                                 | GO:0006635 | 5             | EHHADH, HSD17B4, CPT1A, CPT2, CPT1B       | 48              | 9                  | 216.28          | 1.128e-11 | 4.056e-9    |
| fatty acid metabolic process                              | GO:0006631 | 6             | EHHADH, HSD17B4, CPT1A, CPT2, CPT1B, PHYH | 211             | 9                  | 59.04           | 1.576e-10 | 4.263e-8    |
| carnitine shuttle                                         | GO:0006853 | 3             | CPT1A, CPT2, CPT1B                        | 4               | 9                  | 1557.25         | 3.089e-10 | 7.676e-8    |
| carnitine metabolic process                               | GO:0009437 | 3             | CPT1A, CPT2, CPT1B                        | 8               | 9                  | 778.63          | 4.321e-9  | 7.968e-7    |
| fatty acid derivative biosynthetic process                | GO:1901570 | 2             | EHHADH, HSD17B4                           | 12              | 9                  | 346.06          | 1.357e-5  | 6.728e-4    |
| fatty acid beta-oxidation using acyl-CoA oxidase          | GO:0033540 | 2             | EHHADH, HSD17B4                           | 14              | 9                  | 296.62          | 1.871e-5  | 8.637e-4    |
| lipid metabolic process                                   | GO:0006629 | 5             | EHHADH, HSD17B4, CPT1A, CPT2, CPT1B       | 840             | 9                  | 12.36           | 1.965e-5  | 8.993e-4    |
| alpha-linolenic acid metabolic process                    | GO:0036109 | 2             | EHHADH, HSD17B4                           | 16              | 9                  | 259.54          | 2.466e-5  | 1.065e-3    |
| unsaturated fatty acid biosynthetic process               | GO:0006636 | 2             | EHHADH, HSD17B4                           | 24              | 9                  | 173.03          | 5.660e-5  | 2.007e-3    |
| long-chain fatty acid metabolic process                   | GO:0001676 | 2             | CPT1A, CPT2                               | 29              | 9                  | 143.20          | 8.315e-5  | 2.697e-3    |
| long-chain fatty acid biosynthetic process                | GO:0042759 | 2             | EHHADH, HSD17B4                           | 33              | 9                  | 125.84          | 1.080e-4  | 3.271e-3    |
| very long-chain fatty-acyl-CoA metabolic process          | GO:0036111 | 1             | HSD17B4                                   | 1               | 9                  | 2076.33         | 4.816e-4  | 9.502e-3    |
| L-lysine catabolic process to acetyl-CoA via L-pipecolate | GO:0033514 | 1             | PIPOX                                     | 1               | 9                  | 2076.33         | 4.816e-4  | 9.502e-3    |
| 2-oxobutyrate catabolic process                           | GO:0019606 | 1             | PHYH                                      | 1               | 9                  | 2076.33         | 4.816e-4  | 9.502e-3    |
| medium-chain fatty-acyl-CoA metabolic process             | GO:0036112 | 1             | HSD17B4                                   | 2               | 9                  | 1038.17         | 9.630e-4  | 1.501e-2    |