

GeDiPNet Cluster 416 -- 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: 2026-10-09 03:30:08. · Rows: 9 · Generated: 2026-10-09 08:59:53

| Pathway                                                                     | Source   | Overlap Genes | Overlap Gene Names | Pathway Gene Count | Cluster Gene Count | Fold Enrichment | P-value  | FDR Q-value |
|-----------------------------------------------------------------------------|----------|---------------|--------------------|--------------------|--------------------|-----------------|----------|-------------|
| Cytoskeleton in muscle cells                                                | KEGG     | 2             | FHL1, EMD          | 232                | 3                  | 34.51           | 1.100e-3 | 1.444e-2    |
| Nuclear Envelope Breakdown                                                  | Reactome | 1             | EMD                | 9                  | 3                  | 444.81          | 2.247e-3 | 2.482e-2    |
| Depolymerisation of the Nuclear Lamina                                      | Reactome | 1             | EMD                | 15                 | 3                  | 266.89          | 3.743e-3 | 3.577e-2    |
| Insertion of tail-anchored proteins into the endoplasmic reticulum membrane | Reactome | 1             | EMD                | 16                 | 3                  | 250.21          | 3.992e-3 | 3.753e-2    |
| Initiation of Nuclear Envelope (NE) Reformation                             | Reactome | 1             | EMD                | 19                 | 3                  | 210.70          | 4.739e-3 | 4.219e-2    |
| Arrhythmogenic right ventricular cardiomyopathy                             | KEGG     | 1             | EMD                | 86                 | 3                  | 46.55           | 2.133e-2 | 1.091e-1    |
| Hypertrophic cardiomyopathy                                                 | KEGG     | 1             | EMD                | 99                 | 3                  | 40.44           | 2.453e-2 | 1.180e-1    |
| Dilated cardiomyopathy                                                      | KEGG     | 1             | EMD                | 105                | 3                  | 38.13           | 2.600e-2 | 1.217e-1    |
| JAK-STAT signaling pathway                                                  | KEGG     | 1             | FHL1               | 168                | 3                  | 23.83           | 4.138e-2 | 1.578e-1    |