

GeDiPNet Cluster 210 -- 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: 15 · Generated: 2026-10-08 10:54:16

| Pathway                                                                     | Source   | Overlap Genes | Overlap Gene Names              | Pathway Gene Count | Cluster Gene Count | Fold Enrichment | P-value  | FDR Q-value |
|-----------------------------------------------------------------------------|----------|---------------|---------------------------------|--------------------|--------------------|-----------------|----------|-------------|
| Deactivation of the beta-catenin transactivating complex                    | Reactome | 3             | TCF7L1, SOX2, SOX3              | 42                 | 20                 | 42.89           | 4.350e-5 | 1.160e-3    |
| Basal cell carcinoma                                                        | KEGG     | 3             | GLI2, TCF7L1, SHH               | 63                 | 20                 | 28.60           | 1.472e-4 | 3.089e-3    |
| Pathways in cancer                                                          | KEGG     | 5             | GLI2, TCF7L1, ARNT2, FGFR1, SHH | 533                | 20                 | 5.63            | 1.504e-3 | 1.894e-2    |
| Signaling pathways regulating pluripotency of stem cells                    | KEGG     | 3             | HESX1, FGFR1, SOX2              | 144                | 20                 | 12.51           | 1.657e-3 | 2.036e-2    |
| Signaling by FGFR1 amplification mutants                                    | Reactome | 1             | FGFR1                           | 1                  | 20                 | 600.50          | 1.665e-3 | 2.040e-2    |
| Hippo signaling pathway                                                     | KEGG     | 3             | GLI2, TCF7L1, SOX2              | 157                | 20                 | 11.47           | 2.122e-3 | 2.432e-2    |
| Hedgehog signaling pathway                                                  | KEGG     | 2             | GLI2, SHH                       | 56                 | 20                 | 21.45           | 3.845e-3 | 3.723e-2    |
| Signaling by plasma membrane FGFR1 fusions                                  | Reactome | 1             | FGFR1                           | 3                  | 20                 | 200.17          | 4.988e-3 | 4.437e-2    |
| FGFR1c and Klotho ligand binding and activation                             | Reactome | 1             | FGFR1                           | 3                  | 20                 | 200.17          | 4.988e-3 | 4.437e-2    |
| GLI proteins bind promoters of Hh responsive genes to promote transcription | Reactome | 1             | GLI2                            | 3                  | 20                 | 200.17          | 4.988e-3 | 4.437e-2    |
| POU5F1 (OCT4), SOX2, NANOG repress genes related to differentiation         | Reactome | 1             | SOX2                            | 3                  | 20                 | 200.17          | 4.988e-3 | 4.437e-2    |
| Regulation of commissural axon pathfinding by SLIT and ROBO                 | Reactome | 1             | ROBO1                           | 3                  | 20                 | 200.17          | 4.988e-3 | 4.437e-2    |
| Role of ABL in ROBO-SLIT signaling                                          | Reactome | 1             | ROBO1                           | 4                  | 20                 | 150.13          | 6.645e-3 | 5.398e-2    |
| HHAT G278V abrogates palmitoylation of Hh-Np                                | Reactome | 1             | SHH                             | 4                  | 20                 | 150.13          | 6.645e-3 | 5.398e-2    |
| SLIT2:ROBO1 increases RHOA activity                                         | Reactome | 1             | ROBO1                           | 4                  | 20                 | 150.13          | 6.645e-3 | 5.398e-2    |