

GeDiPNet Cluster 35 -- 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 20:16:21

Pathway	Source	Overlap Genes	Overlap Gene Names	Pathway Gene Count	Cluster Gene Count	Fold Enrichment	P-value	FDR Q-value
Ovarian steroidogenesis	KEGG	4	BMP15, FSHR, CYP11A1, LHCGR	52	50	18.48	6.211e-5	1.539e-3
Deactivation of the beta-catenin transactivating complex	Reactome	3	SOX3, SOX9, SRY	42	50	17.16	6.953e-4	1.052e-2
Glycoprotein hormones	Reactome	2	INHA, INHBB	12	50	40.03	1.092e-3	1.484e-2
Hormone ligand-binding receptors	Reactome	2	FSHR, LHCGR	12	50	40.03	1.092e-3	1.484e-2
Nuclear Receptor transcription pathway	Reactome	3	NR5A1, NR0B1, ESR2	52	50	13.86	1.300e-3	1.698e-2
Mitochondrial tRNA aminoacylation	Reactome	2	HARS2, LARS2	14	50	34.31	1.497e-3	1.890e-2
Cortisol synthesis and secretion	KEGG	3	NR5A1, NR0B1, CYP11A1	65	50	11.09	2.474e-3	2.729e-2
SUMOylation of RNA binding proteins	Reactome	2	NUP107, CBX2	47	50	10.22	1.630e-2	9.455e-2
Antagonism of Activin by Follistatin	Reactome	1	INHBB	4	50	60.05	1.655e-2	9.503e-2
Defective CYP11A1 causes Adrenal insufficiency, congenital, with 46,XY sex reversal (AICSR)	Reactome	1	CYP11A1	4	50	60.05	1.655e-2	9.503e-2
HHAT G278V abrogates palmitoylation of Hh-Np	Reactome	1	DHH	4	50	60.05	1.655e-2	9.503e-2
ChREBP activates metabolic gene expression	Reactome	1	MLX	7	50	34.31	2.879e-2	1.297e-1
Synthesis, secretion, and inactivation of Glucose-dependent Insulinotropic Polypeptide (GIP)	Reactome	1	GATA4	7	50	34.31	2.879e-2	1.297e-1
Release of Hh-Np from the secreting cell	Reactome	1	DHH	7	50	34.31	2.879e-2	1.297e-1
Ligand-receptor interactions	Reactome	1	DHH	7	50	34.31	2.879e-2	1.297e-1