

GeDiPNet Cluster 150 -- 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: 2026-10-07 03:30:09. · Rows: 15 · Generated: 2026-10-07 10:04:22

Pathway	Source	Overlap Genes	Overlap Gene Names	Pathway Gene Count	Cluster Gene Count	Fold Enrichment	P-value	FDR Q-value
The canonical retinoid cycle in rods (twilight vision)	Reactome	2	ABCA4, CYP4V2	20	11	109.18	1.436e-4	3.007e-3
Reversal of alkylation damage by DNA dioxygenases	Reactome	1	FTO	2	11	545.91	1.831e-3	2.135e-2
Misspliced LRP5 mutants have enhanced beta-catenin-dependent signaling	Reactome	1	LRP5	6	11	181.97	5.484e-3	4.649e-2
Defective CHST3 causes SEDCJD	Reactome	1	VCAN	8	11	136.48	7.306e-3	5.623e-2
Defective CHST14 causes EDS, musculocontractural type	Reactome	1	VCAN	8	11	136.48	7.306e-3	5.623e-2
Defective CHSY1 causes TPBS	Reactome	1	VCAN	8	11	136.48	7.306e-3	5.623e-2
Negative regulation of TCF-dependent signaling by WNT ligand antagonists	Reactome	1	LRP5	8	11	136.48	7.306e-3	5.623e-2
RNF mutants show enhanced WNT signaling and proliferation	Reactome	1	LRP5	8	11	136.48	7.306e-3	5.623e-2
Dermatan sulfate biosynthesis	Reactome	1	VCAN	11	11	99.26	1.003e-2	6.856e-2
Retinoid cycle disease events	Reactome	1	ABCA4	13	11	83.99	1.185e-2	7.599e-2
CS/DS degradation	Reactome	1	VCAN	14	11	77.99	1.275e-2	7.893e-2
Defective B4GALT7 causes EDS, progeroid type	Reactome	1	VCAN	20	11	54.59	1.817e-2	9.770e-2
Defective B3GAT3 causes JDSSDHD	Reactome	1	VCAN	20	11	54.59	1.817e-2	9.770e-2
Defective B3GALT6 causes EDSP2 and SEMDJL1	Reactome	1	VCAN	20	11	54.59	1.817e-2	9.770e-2
Chondroitin sulfate biosynthesis	Reactome	1	VCAN	20	11	54.59	1.817e-2	9.770e-2