

GeDiPNet Cluster 219 -- 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: 15 · Generated: 2026-10-09 04:56:53

Pathway	Source	Overlap Genes	Overlap Gene Names	Pathway Gene Count	Cluster Gene Count	Fold Enrichment	P-value	FDR Q-value
AGE-RAGE signaling pathway in diabetic complications	KEGG	2	COL4A1, AGER	101	8	29.73	1.897e-3	2.195e-2
Caspase activation via Dependence Receptors in the absence of ligand	Reactome	1	DCC	4	8	375.31	2.662e-3	2.814e-2
HHAT G278V abrogates palmitoylation of Hh-Np	Reactome	1	SHH	4	8	375.31	2.662e-3	2.814e-2
Pathways in cancer	KEGG	3	SHH, DCC, COL4A1	533	8	8.45	4.117e-3	3.834e-2
Release of Hh-Np from the secreting cell	Reactome	1	SHH	7	8	214.46	4.655e-3	4.170e-2
Ligand-receptor interactions	Reactome	1	SHH	7	8	214.46	4.655e-3	4.170e-2
Netrin-1 signaling	Reactome	1	DCC	8	8	187.66	5.318e-3	4.561e-2
Advanced glycosylation endproduct receptor signaling	Reactome	1	AGER	8	8	187.66	5.318e-3	4.561e-2
Axon guidance	KEGG	2	SHH, DCC	183	8	16.41	6.087e-3	4.999e-2
DCC mediated attractive signaling	Reactome	1	DCC	11	8	136.48	7.306e-3	5.639e-2
Extracellular matrix organization	Reactome	1	COL4A1	15	8	100.08	9.951e-3	6.891e-2
Anchoring fibril formation	Reactome	1	COL4A1	15	8	100.08	9.951e-3	6.891e-2
Activation of SMO	Reactome	1	SHH	18	8	83.40	1.193e-2	7.721e-2
Crosslinking of collagen fibrils	Reactome	1	COL4A1	18	8	83.40	1.193e-2	7.721e-2
NCAM1 interactions	Reactome	1	COL4A1	21	8	71.49	1.391e-2	8.470e-2