

GeDiPNet Cluster 227 -- 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 12:58:02

Pathway	Source	Overlap Genes	Overlap Gene Names	Pathway Gene Count	Cluster Gene Count	Fold Enrichment	P-value	FDR Q-value
ATP sensitive Potassium channels	Reactome	3	ABCC9, KCNJ8, KCNJ11	4	15	600.50	6.301e-9	5.643e-7
Defective ABCC9 causes dilated cardiomyopathy 10, familial atrial fibrillation 12 and hypertrichotic osteochondrodysplasia	Reactome	2	ABCC9, KCNJ11	2	15	800.67	1.456e-6	6.754e-5
MPS IIIB - Sanfilippo syndrome B	Reactome	1	NAGLU	1	15	800.67	1.249e-3	1.645e-2
Defective SLC29A3 causes histiocytosis-lymphadenopathy plus syndrome (HLAS)	Reactome	1	SLC29A3	1	15	800.67	1.249e-3	1.645e-2
ABC transporters	KEGG	2	ABCC9, ABCA5	45	15	35.59	1.397e-3	1.793e-2
Ion homeostasis	Reactome	2	ABCC9, KCNJ11	54	15	29.65	2.007e-3	2.330e-2
Defective ABCC8 can cause hypoglycemia and hyperglycemia	Reactome	1	KCNJ11	2	15	400.33	2.496e-3	2.744e-2
Lysine degradation	KEGG	2	EHMT1, KMT2C	63	15	25.42	2.721e-3	2.925e-2
PKMTs methylate histone lysines	Reactome	2	EHMT1, KMT2C	71	15	22.55	3.443e-3	3.441e-2
ABC-family proteins mediated transport	Reactome	2	ABCC9, KCNJ11	81	15	19.77	4.456e-3	4.125e-2
Polycomb repressive complex	KEGG	2	ASXL1, CREBBP	83	15	19.29	4.674e-3	4.249e-2
LRR FLII-interacting protein 1 (LRRFIP1) activates type I IFN production	Reactome	1	CREBBP	5	15	160.13	6.230e-3	5.168e-2
RUNX1 regulates transcription of genes involved in differentiation of myeloid cells	Reactome	1	CREBBP	7	15	114.38	8.712e-3	6.435e-2
Regulation of FOXO transcriptional activity by acetylation	Reactome	1	CREBBP	7	15	114.38	8.712e-3	6.435e-2
Regulation of gene expression by Hypoxia-inducible Factor	Reactome	1	CREBBP	11	15	72.79	1.366e-2	8.453e-2