

GeDiPNet Cluster 114 -- 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 09:14:42

Pathway	Source	Overlap Genes	Overlap Gene Names	Pathway Gene Count	Cluster Gene Count	Fold Enrichment	P-value	FDR Q-value
Circadian rhythm	KEGG	4	CRY1, BHLHE40, NFIL3, RORC	34	133	10.62	5.152e-4	8.313e-3
Renin secretion	KEGG	5	PLCB1, ACE, ADRB1, EDN1, EDNRA	69	133	6.54	9.841e-4	1.376e-2
Interleukin-18 signaling	Reactome	2	IL37, IL18	8	133	22.58	3.263e-3	3.308e-2
SEMA3A-Plexin repulsion signaling by inhibiting Integrin adhesion	Reactome	2	NRP1, SEMA3A	10	133	18.06	5.168e-3	4.554e-2
AGE-RAGE signaling pathway in diabetic complications	KEGG	5	PLCB1, BCL2, EDN1, NOS3, TNF	101	133	4.47	5.238e-3	4.596e-2
Interleukin-4 and Interleukin-13 signaling	Reactome	5	BCL2, IL18, MMP9, TNF, RORC	108	133	4.18	6.934e-3	5.551e-2
African trypanosomiasis	KEGG	3	PLCB1, IL18, TNF	37	133	7.32	7.838e-3	6.010e-2
Defective CYP17A1 causes Adrenal hyperplasia 5 (AH5)	Reactome	1	CYP17A1	1	133	90.30	1.107e-2	7.465e-2
Defective UGT1A1 causes hyperbilirubinemia	Reactome	1	UGT1A1	1	133	90.30	1.107e-2	7.465e-2
Serotonin clearance from the synaptic cleft	Reactome	1	SLC6A4	1	133	90.30	1.107e-2	7.465e-2
Sema3A PAK dependent Axon repulsion	Reactome	2	NRP1, SEMA3A	15	133	12.04	1.163e-2	7.667e-2
CRMPs in Sema3A signaling	Reactome	2	NRP1, SEMA3A	16	133	11.29	1.320e-2	8.294e-2
Relaxin signaling pathway	KEGG	5	ARRB1, PLCB1, EDN1, MMP9, NOS3	130	133	3.47	1.470e-2	8.856e-2
Fluid shear stress and atherosclerosis	KEGG	5	BCL2, EDN1, MMP9, NOS3, TNF	141	133	3.20	2.019e-2	1.064e-1
NOSIP mediated eNOS trafficking	Reactome	1	NOS3	2	133	45.15	2.203e-2	1.122e-1