

GeDiPNet Cluster 299 -- 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 14:40:08

Pathway	Source	Overlap Genes	Overlap Gene Names	Pathway Gene Count	Cluster Gene Count	Fold Enrichment	P-value	FDR Q-value
RUNX1 interacts with co-factors whose precise effect on RUNX1 targets is not known	Reactome	9	SMARCB1, ARID1A, ARID1B, ARID2, SMARCA2, SMARCA4, SMARCC2, SMARCD1, SMARCE1	38	20	142.22	1.872e-18	1.181e-15
ATP-dependent chromatin remodeling	KEGG	11	SMARCB1, ARID1A, ARID1B, ARID2, BICRA, DPF2, SMARCA2, SMARCA4, SMARCC2, SMARCD1, SMARCE1	117	20	56.46	7.243e-18	4.046e-15
RMTs methylate histone arginines	Reactome	9	SMARCB1, ARID1A, ARID1B, ARID2, SMARCA2, SMARCA4, SMARCC2, SMARCD1, SMARCE1	79	20	68.41	2.284e-15	8.190e-13
Hepatocellular carcinoma	KEGG	9	SMARCB1, ARID1A, ARID1B, ARID2, SMARCA2, SMARCA4, SMARCC2, SMARCD1, SMARCE1	170	20	31.79	2.711e-12	5.444e-10
Thermogenesis	KEGG	9	SMARCB1, RPS6KA3, ARID1A, ARID1B, SMARCA2, SMARCA4, SMARCC2, SMARCD1, SMARCE1	234	20	23.10	4.838e-11	7.478e-9
RSK activation	Reactome	1	RPS6KA3	4	20	150.13	6.645e-3	5.278e-2
CREB1 phosphorylation through NMDA receptor-mediated activation of RAS signaling	Reactome	1	RPS6KA3	5	20	120.10	8.300e-3	6.104e-2
CREB phosphorylation	Reactome	1	RPS6KA3	7	20	85.79	1.160e-2	7.504e-2
Gastrin-CREB signalling pathway via PKC and MAPK	Reactome	1	RPS6KA3	9	20	66.72	1.489e-2	8.659e-2
The activation of arylsulfatases	Reactome	1	ARSL	13	20	46.19	2.144e-2	1.071e-1
ERK/MAPK targets	Reactome	1	RPS6KA3	14	20	42.89	2.308e-2	1.115e-1
EGR2 and SOX10-mediated initiation of Schwann cell myelination	Reactome	1	SMARCA4	20	20	30.03	3.281e-2	1.357e-1
Chromatin modifying enzymes	Reactome	1	SMARCA4	20	20	30.03	3.281e-2	1.357e-1
RHO GTPases activate PAKs	Reactome	1	NF2	23	20	26.11	3.764e-2	1.465e-1
Hippo signaling pathway - multiple species	KEGG	1	NF2	29	20	20.71	4.724e-2	1.660e-1