

GeDiPNet Cluster 496 -- Enriched GO Terms (Biological Process)

GO term enrichment: Biological Process terms (gene2go, human/tax_id=9606 only), upper-tail hypergeometric test, fold enrichment = (overlap / cluster gene count) / (term gene count / universe size), Benjamini-Hochberg FDR-corrected. Top 15 terms per cluster by q-value. See scripts/build_cluster_go_enrichment.php on gedipnet.bicnirrh.res.in. Data as of: 2026-10-20 03:23:14. · Rows: 15 · Generated: 2026-10-19 23:18:31

GO Term	GO ID	Overlap Genes	Overlap Gene Names	Term Gene Count	Cluster Gene Count	Fold Enrichment	P-value	FDR Q-value
insulin receptor signaling pathway	GO:0008286	4	AKT3, MTOR, PIK3CA, PIK3R2	80	9	103.82	3.860e-8	5.664e-6
phosphatidylinositol 3-kinase/protein kinase B signal transduction	GO:0043491	4	MTOR, PIK3CA, PTEN, PIK3R2	92	9	90.28	6.802e-8	9.216e-6
positive regulation of TOR signaling	GO:0032008	3	AKT3, PIK3CA, RHEB	36	9	173.03	5.472e-7	5.260e-5
negative regulation of cell size	GO:0045792	2	MTOR, PTEN	9	9	461.41	7.410e-6	4.316e-4
cellular response to insulin stimulus	GO:0032869	3	MTOR, PIK3CA, PIK3R2	102	9	61.07	1.295e-5	6.650e-4
anoikis	GO:0043276	2	MTOR, PIK3CA	12	9	346.06	1.357e-5	6.892e-4
negative regulation of macroautophagy	GO:0016242	2	MTOR, PIK3CA	14	9	296.62	1.871e-5	8.777e-4
cytoplasmic translation	GO:0002181	3	MTOR, RHEB, RPS6	126	9	49.44	2.441e-5	1.073e-3
TOR signaling	GO:0031929	2	MTOR, RPS6	24	9	173.03	5.660e-5	2.019e-3
positive regulation of oligodendrocyte differentiation	GO:0048714	2	MTOR, RHEB	25	9	166.11	6.150e-5	2.160e-3
negative regulation of cellular senescence	GO:2000773	2	AKT3, PTEN	26	9	159.72	6.661e-5	2.283e-3
regulation of phosphatidylinositol 3-kinase/protein kinase B signal transduction	GO:0051896	2	MTOR, PTEN	27	9	153.80	7.192e-5	2.419e-3
positive regulation of cell population proliferation	GO:0008284	4	MTOR, PTEN, RPS6, CCND2	532	9	15.61	7.303e-5	2.448e-3
positive regulation of lamellipodium assembly	GO:0010592	2	MTOR, PIK3CA	28	9	148.31	7.744e-5	2.558e-3
positive regulation of ubiquitin-dependent protein catabolic process	GO:2000060	2	MTOR, PTEN	30	9	138.42	8.907e-5	2.840e-3