

GeDiPNet Cluster 167 -- 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: 2026-10-07 03:23:06. · Rows: 15 · Generated: 2026-10-07 06:50:43

GO Term	GO ID	Overlap Genes	Overlap Gene Names	Term Gene Count	Cluster Gene Count	Fold Enrichment	P-value	FDR Q-value
interleukin-6-mediated signaling pathway	GO:0070102	4	STAT3, JAK1, JAK2, IL6ST	16	27	173.03	6.214e-9	1.130e-6
negative regulation of autophagy	GO:0010507	5	MAPK3, RPS6KB1, STAT3, HGF, MET	73	27	47.40	5.976e-8	7.870e-6
interleukin-11-mediated signaling pathway	GO:0038154	3	STAT3, JAK1, IL6ST	7	27	296.62	9.378e-8	1.141e-5
positive regulation of vascular endothelial growth factor production	GO:0010575	4	STAT3, BRCA1, TGFB1, IL6ST	32	27	86.51	1.209e-7	1.411e-5
cellular response to ionizing radiation	GO:0071479	4	BRCA1, BRCA2, TP53, TGFB1	41	27	67.52	3.374e-7	3.358e-5
positive regulation of gene expression	GO:0010628	8	CLU, STAT3, BRCA1, TP53, ACTA2, SMAD2, TGFB1, ITGB3	504	27	10.99	3.743e-7	3.665e-5
T-helper 17 cell lineage commitment	GO:0072540	3	STAT3, JAK1, IL6ST	13	27	159.72	7.619e-7	6.666e-5
growth hormone receptor signaling pathway via JAK-STAT	GO:0060397	3	STAT3, JAK1, JAK2	15	27	138.42	1.210e-6	9.657e-5
type II interferon-mediated signaling pathway	GO:0060333	3	JAK1, JAK2, TP53	15	27	138.42	1.210e-6	9.657e-5
cell population proliferation	GO:0008283	6	STAT3, BRCA2, TP53, MKI67, SMAD2, TGFB1	263	27	15.79	1.695e-6	1.264e-4
cytokine-mediated signaling pathway	GO:0019221	5	SLC1A1, STAT3, JAK1, JAK2, IL6ST	145	27	23.87	1.847e-6	1.352e-4
positive regulation of growth factor dependent skeletal muscle satellite cell proliferation	GO:1902728	2	STAT3, JAK2	2	27	692.11	2.010e-6	1.446e-4
cell surface receptor signaling pathway via JAK-STAT	GO:0007259	4	STAT3, JAK1, JAK2, IL6ST	67	27	41.32	2.489e-6	1.716e-4
response to X-ray	GO:0010165	3	BRCA2, TP53, CASP3	19	27	109.28	2.567e-6	1.754e-4
response to antibiotic	GO:0046677	3	JAK1, JAK2, TP53	21	27	98.87	3.516e-6	2.267e-4