

GeDiPNet Cluster 151 -- 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 00:26:25

GO Term	GO ID	Overlap Genes	Overlap Gene Names	Term Gene Count	Cluster Gene Count	Fold Enrichment	P-value	FDR Q-value
Notch receptor processing	GO:0007220	3	NCSTN, PSENEN, PSEN1	9	6	1038.17	1.544e-9	3.301e-7
amyloid-beta formation	GO:0034205	3	NCSTN, PSENEN, PSEN1	10	6	934.35	2.205e-9	4.498e-7
amyloid precursor protein metabolic process	GO:0042982	3	NCSTN, PSENEN, PSEN1	12	6	778.63	4.042e-9	7.709e-7
amyloid precursor protein catabolic process	GO:0042987	3	NCSTN, PSENEN, PSEN1	14	6	667.39	6.686e-9	1.207e-6
Notch signaling pathway	GO:0007219	4	APP, NCSTN, PSENEN, PSEN1	117	6	106.48	2.168e-8	3.353e-6
membrane protein ectodomain proteolysis	GO:0006509	3	NCSTN, PSENEN, PSEN1	27	6	346.06	5.364e-8	7.186e-6
astrocyte activation involved in immune response	GO:0002265	2	APP, PSEN1	4	6	1557.25	5.153e-7	4.792e-5
positive regulation of amyloid fibril formation	GO:1905908	2	APP, PSEN1	5	6	1245.80	8.588e-7	7.325e-5
learning or memory	GO:0007611	3	APP, NCSTN, PSEN1	72	6	129.77	1.088e-6	8.873e-5
cellular response to manganese ion	GO:0071287	2	APP, LRRK2	7	6	889.86	1.803e-6	1.327e-4
protein processing	GO:0016485	3	NCSTN, PSENEN, PSEN1	95	6	98.35	2.518e-6	1.730e-4
positive regulation of tumor necrosis factor production	GO:0032760	3	APP, PSEN1, LRRK2	113	6	82.69	4.249e-6	2.634e-4
amyloid-beta metabolic process	GO:0050435	2	NCSTN, PSEN1	12	6	519.08	5.662e-6	3.312e-4
neuron projection maintenance	GO:1990535	2	APP, PSEN1	13	6	479.15	6.691e-6	3.780e-4
membrane protein intracellular domain proteolysis	GO:0031293	2	NCSTN, PSENEN	14	6	444.93	7.805e-6	4.294e-4