

GeDiPNet Cluster 565 -- 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: 2026-10-20 00:01:12

GO Term	GO ID	Overlap Genes	Overlap Gene Names	Term Gene Count	Cluster Gene Count	Fold Enrichment	P-value	FDR Q-value
melanin biosynthetic process	GO:0042438	3	MC1R, SLC45A2, TYR	14	46	87.05	4.986e-6	3.172e-4
type II interferon-mediated signaling pathway	GO:0060333	3	TYK2, TP53, IRF1	15	46	81.25	6.221e-6	3.768e-4
melanin biosynthetic process from tyrosine	GO:0006583	2	SLC45A2, TYR	4	46	203.12	3.546e-5	1.424e-3
interleukin-23-mediated signaling pathway	GO:0038155	2	IL23R, TYK2	6	46	135.41	8.836e-5	2.823e-3
positive regulation of interleukin-12 production	GO:0032735	3	IL23R, IRF1, TLR2	43	46	28.34	1.608e-4	4.345e-3
positive regulation of natural killer cell proliferation	GO:0032819	2	IL23R, TYK2	12	46	67.71	3.852e-4	7.961e-3
apoptotic process	GO:0006915	8	CARD14, IL2RA, CLPTM1L, TP53, IRF1, SGPL1, TLR2, UNC5B	747	46	4.35	4.258e-4	8.531e-3
positive regulation of T-helper 17 type immune response	GO:2000318	2	IL23R, TYK2	13	46	62.50	4.545e-4	8.911e-3
positive regulation of calcium ion-dependent exocytosis	GO:0045956	2	CDK5R2, SYT4	14	46	58.03	5.294e-4	9.880e-3
positive regulation of T cell proliferation	GO:0042102	3	IL23R, IL2RA, TYK2	67	46	18.19	5.989e-4	1.074e-2
negative regulation of androgen receptor signaling pathway	GO:0060766	2	FOXP1, ZBTB7A	17	46	47.79	7.875e-4	1.274e-2
inflammatory response	GO:0006954	6	IL13, IL23R, IL2RA, TACR1, TLR2, TMEM258	467	46	5.22	9.470e-4	1.423e-2
positive regulation of NF-kappaB transcription factor activity	GO:0051092	3	CARD14, ZBTB7A, TLR2	80	46	15.23	1.004e-3	1.468e-2
macrophage activation	GO:0042116	2	FOXP1, IL13	23	46	35.33	1.451e-3	1.797e-2
protein autoprocessing	GO:0016540	2	KLK6, MYRF	25	46	32.50	1.715e-3	1.959e-2