

GeDiPNet Cluster 229 -- 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 11:09:02

GO Term	GO ID	Overlap Genes	Overlap Gene Names	Term Gene Count	Cluster Gene Count	Fold Enrichment	P-value	FDR Q-value
hemidesmosome assembly	GO:0031581	5	ITGB4, PLEC, DST, LAMA3, COL17A1	6	34	458.01	8.785e-14	4.886e-11
epidermis development	GO:0008544	9	KRT14, KRT5, COL7A1, LAMB3, LAMA3, LAMC2, COL17A1, DSP, KRT2	114	34	43.39	3.919e-13	1.941e-10
cell adhesion	GO:0007155	13	ITGB4, COL7A1, ITGA6, LAMB3, CD151, DST, FREM2, PKP1, LAMA3, LAMC2, ITGA3, JUP	665	34	10.74	6.089e-11	1.838e-8
intermediate filament organization	GO:0045109	6	PLEC, KRT14, KRT5, KLHL24, DSP, KRT2	70	34	47.11	2.748e-9	5.468e-7
cell-cell adhesion	GO:0098609	8	ITGB4, ITGA6, PKP1, LAMA3, ITGA3, DSP, JUP, CSTA	218	34	20.17	4.220e-9	8.009e-7
keratinocyte development	GO:0003334	3	PLEC, EXPH5, KRT2	11	34	149.90	8.990e-7	7.601e-5
skin development	GO:0043588	4	PLEC, ITGA3, DSP, JUP	55	34	39.97	2.916e-6	1.948e-4
peptide cross-linking	GO:0018149	3	DSP, CSTA, KRT2	19	34	86.78	5.227e-6	3.114e-4
keratinocyte differentiation	GO:0030216	4	PLEC, KRT14, DSP, CSTA	69	34	31.86	7.261e-6	4.044e-4
intermediate filament cytoskeleton organization	GO:0045104	3	PLEC, DST, DSP	23	34	71.69	9.506e-6	5.021e-4
cell communication	GO:0007154	4	DLL4, ITGB4, FREM2, GPR33	80	34	27.48	1.310e-5	6.449e-4
integrin-mediated signaling pathway	GO:0007229	4	ITGB4, ITGA6, DST, ITGA3	100	34	21.98	3.165e-5	1.272e-3
endodermal cell differentiation	GO:0035987	3	COL7A1, LAMB3, LAMA3	36	34	45.80	3.771e-5	1.453e-3
cell-matrix adhesion	GO:0007160	4	ITGB4, ITGA6, COL17A1, ITGA3	105	34	20.94	3.833e-5	1.472e-3
bundle of His cell-Purkinje myocyte adhesion involved in cell communication	GO:0086073	2	DSP, JUP	6	34	183.21	4.798e-5	1.739e-3